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BRITISH MUSEUM
(NATURAL HISTORY)

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Bournemouth Natural Science Society



Proceedings (1991-92)

VOLUME LXIII
PART 4



BRITISH MUSEUM
(NATURAL HISTORY)

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PROCEEDINGS
of the
**Bournemouth
Natural Science
Society**

A Registered Charity No. 219585

VOLUME LXIII
PART 4

(1991-92)

Edited by
E. Oldfield

***PUBLISHED BY THE SOCIETY
AT ITS HOUSE,
39 CHRISTCHURCH ROAD,
BOURNEMOUTH BH1 3NS.***

Price: £1.50

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A set of back numbers may be consulted in the Society's Reference Library or individual Volumes borrowed from the Lending Library on application to the Librarian.

INTRODUCTORY NOTE

The Society was founded in 1903 for the promotion of the study of Science in all its branches by means of Lectures, Field Meetings, the Reading and Discussion of Papers and in any way that the Council of the Society shall deem desirable.

An elected Council is charged with the responsibility of managing its affairs in accordance with the rules. The Society is a registered Charity No. 219585.

Sections at present included are: Archaeology and History, Astronomy, Botany, Geography, Geology, Horticulture, Physics and Chemistry, Photography and Zoology (Entomology, Mammalia and Ornithology).

The Society has its own premises at 39, Christchurch Road, a listed building, which provides the venue for its lectures and meetings. It houses a museum and a library and stands in an interesting, botanical garden. Members may borrow books from the library and there is a reading room where works of reference may be consulted. The museum contains many valuable collections and specimens.

A programme of activities is published quarterly and covers most weekdays. The programme comprises lectures, field meetings, cultural visits and social events.

Membership is open to all who are interested in the objects of the Society and full details may be obtained from the Secretary.

CONTENTS

Officers and Council, 1992-93	...	...	...	...	...	...	...	...	...	6
Committees, 1992-93	...	...	...	...	...	...	...	...	...	7
List of Members, 31st October, 1992	...	...	...	...	...	...	...	...	...	8
Obituary Notices	...	...	...	...	...	...	...	...	...	17
List of Legacies	...	...	...	...	...	...	...	...	...	17
Presidential Address:-										
Oil In Dorset										
by Mrs V.E. Copp B.A., F.G.S.	...	...	...	...	...	...	...	...	...	18
Report of Council	...	...	...	...	...	...	...	...	...	26
Report of Tea and Entertainment Committee	...	...	...	...	...	...	...	...	...	28
Sectional Reports for the year 1991-92:										
Archaeology and History	...	...	...	...	...	...	...	...	...	29
Heywood Sumner and the B.N.S.S. - G. Le Pard	...	...	...	...	...	...	...	...	...	31
Astronomy	...	...	...	...	...	...	...	...	...	36
Botany	...	...	...	...	...	...	...	...	...	37
Geography	...	...	...	...	...	...	...	...	...	38
Geology	...	...	...	...	...	...	...	...	...	40
Horticulture	...	...	...	...	...	...	...	...	...	42
Physics and Chemistry	...	...	...	...	...	...	...	...	...	43
Photography	...	...	...	...	...	...	...	...	...	44
Zoology - Entomology	...	...	...	...	...	...	...	...	...	45
Mammalia and Natural History	...	...	...	...	...	...	...	...	...	46
Ornithology	...	...	...	...	...	...	...	...	...	48
Members' Afternoons	...	...	...	...	...	...	...	...	...	51
Library	...	...	...	...	...	...	...	...	...	51
Museum	...	...	...	...	...	...	...	...	...	52
Publications and Periodicals Received	...	...	...	...	...	...	...	...	...	53
List of Presidents	...	...	...	...	...	...	...	...	...	54
Financial Report	...	...	...	...	...	...	...	...	...	56

OFFICERS AND COUNCIL FOR 1992-93

PRESIDENT:

Mrs V.E. Copp, B.A., F.G.S.

VICE-PRESIDENTS:

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T.P. Whieldon B.Sc.
Mrs L.M. Maddox
F.R. Watson

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M.P. Bentley, O.B.E., C.Eng.

J.G. Parkinson, F.Z.S.
William H. Lee

CHAIRMAN OF COUNCIL:

Miss M.W.S. Davis

DEPUTY CHAIRMAN:

W.D. Watson, C.Eng., F.I.C.E.

OFFICERS:

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CINE: W.Hardy

CHAIRMEN OF SECTIONS:

ARCHAEOLOGY AND HISTORY: H.A. Westrap
ASTRONOMY: G. Nash, M.A., F.R.A.S.
BOTANY: Miss S. Mackintosh
GEOGRAPHY: Miss M.W.S. Davis
GEOLOGY: Mrs V.E.Copp, B.A., F.G.S.
HORTICULTURE: Miss M. Blower
PHOTOGRAPHY: Miss B.M. Spibey
PHYSICS AND CHEMISTRY: Rev. F.W. King
ZOOLOGY - ENTOMOLOGY: Miss M.M.Brooks, PhC., M.R.Pharm.S.,
F.R.S.H., F.R.E.S.
MAMMALIA: Mrs M. Arnold
ORNITHOLOGY: P.F. Powell
MEMBERS' DAY: Mrs H.M. Dickinson

CHAIRMEN OF COMMITTEES

ELECTED MEMBERS:

A Andrew M.A.
J. Andrews
Mrs M Arnold
W.A.H. Arnold
Miss B.M. Ball
Mrs E.P. Bentley, A.T.D.

W.L. George
Miss E. Hayter
Mrs. K. Lawrence
A. Osborn
Mrs J. Zara B.Sc., M.Ed.

BANKERS: National Westminster Bank, PLC, The Square, Bournemouth
HON. AUDITORS: A.G. Jenkinson, B.Sc., G. Sparkes M.I.E.E.

COMMITTEES, 1992-93

FINANCE AND GENERAL PURPOSES:

CHAIRMAN: Miss M.W.S. DAVIS

PRESIDENT, DEPUTY CHAIRMAN, HON. TREASURER, HON. SECRETARY, CHAIRMAN OF PROGRAMME COMMITTEE, CHAIRMAN OF MUSEUM COMMITTEE, HON. DEPUTY SECRETARY, HON. ASSISTANT TREASURER, HON. ASSISTANT SECRETARY, (all ex officio)
W.H. Lee, W.A.H. Arnold

MUSEUM:

CHAIRMAN: Rev. F.W. King

DEPUTY CHAIRMAN: Mrs J. George

CURATOR: Graham Teasdill; DEPUTY CURATOR: H.A. Westrap

Miss J. Zara, Mrs J. Crompton
R.S. George, W.L. George,
and CHAIRMEN OF SECTIONS

LIBRARY:

CHAIRMAN: Miss P.E. Winter

LIBRARIAN: R.E. Harwood

A. Andrew, Miss J.M. Merchant
Dr. D.J. Godfrey, Miss L.M. Rowe, Mrs. H. Dickinson, J.D. Slater

HOUSE:

W.A.H. Arnold, F.R. Watson, H.A. Westrap

GARDEN:

CHAIRMAN: Miss M. Blower

Mrs. W. Chomé, S. Huggins, Mrs. L.V. Nicklen, Mrs. R.C. Crane,
Miss S. Mackintosh, L.H. Shepherd, Mrs J. Kaye

TEA & ENTERTAINMENT:

CHAIRMAN: Mrs. P. Hood

Mrs. J.E. Crompton, Mrs. H.M. Dickinson, Mrs. E. Hardy, Mrs M.K. Parkinson,
Mrs P. Andrews, Mrs. G.Kernan, Mrs. K. Lawrence, Mrs. J. Macdonald,
Mrs P. Powell, Miss C.M. Hancock, Mrs. L.Wheeler, Mrs. M. Whieldon,
Mrs. D. Wood, Mrs G.L. Wallis

PROGRAMME

CHAIRMAN: Miss M.W.S. Davis

SECRETARY: Miss B.M. Spibey

CHAIRMEN OF SECTIONS

LIST OF MEMBERS

Revised to 31st October 1992

* HONORARY MEMBER
V VICE-PRESIDENT
+ PAST PRESIDENT

L LIFE MEMBER
A ASSOCIATE MEMBER

The year of election is given before the name of each member
Unless otherwise stated all addresses are in Bournemouth.

1990	Abineri, K.W. B.Sc., C.Chem., M.R.S.C., F.R.A.S.	42 West Borough, Wimborne BH21 1WQ
1987	Aitken, Major R.C., B.Sc.	42 Priory View Road, BH9 3JQ
1987	Aitken, Mrs S.A., B.A.	" " " "
1963 *	Allen, Miss M.	174 Holdenhurst Road, BH8 8AS
1986	Allin, M.E.A., L.D.S.	3 Private Road, Marsh Lane, Lymington SO41 9EW
1960	Alsford, Mrs J.R.	20 Church Road, Ferndown, BH22 9EU
1989	Anderson, Mrs J.L.	24 Baronsmede, 17 Branksome Wood Road BH2 6PE
1977	Andrew, A., M.A.	F7 Pine Grange, Bath Road, BH1 2PN
1986	Andrews, Mrs D.L.	6 Westward Court, 176 Westward Road, Ebley Stroud, Glos. GL5 4ST
1989	Andrews, J.	28 Mayfield Road, Moordown BH9 1TQ
1989	Andrews, Mrs P.	" " " "
1983	Andrews, Mrs P.A.	19 Marian Road, Corfe Mullen, Wimborne BH21 3UJ
1991	Armour, J.S. C.Eng., M.I.E.E.	6 Grosvenor Court, 17 Grosvenor Rd, BH4 8BQ
1991	Armour, Mrs M.F. SRN	" " " "
1985 *	Arnold, W.A.H.	8 Cranleigh Gardens, BH6 5LE
1967 L	Arnold, Mrs M.	" " " "
1989	Arnold, W.G.	The Pantiles, School Lane, Thorney Hill, Christchurch BH23 8DT
1989	Arnold, Mrs N.E.	" " " "
1986	Artless, Mrs E.J.	47B Parkwood Road, BH5 2BS
1982	Ascher, P.	110 Bure Homage, Mudeford BH23 4DR
1982	Ascher, Mrs E.R.	" " " "
1975	Ash, Miss C.C.	22 Pendennis, 7 Derby Road BH1 3PU
1986	Ashbee, Miss M.	63 Saxonbury Road, BH6 5ND
1974	Ayton, D.J.	201 Kinson Road, BH10 5HB
1987	Atyeo, G.H.	31 Solent Road, BH6 4BP
1987	Atyeo, Mrs M.A.	" " " "
1989	Ayles, Mrs N.	1 The Lawns, 60 Southbourne Road BH6 5AE
1977 *	Ball, Miss B.M.	25 Dingle Road, BH5 2DP
1966 L	Band, Miss E., B.A.	9 Deveron Lodge, 23 Christchurch Road, BH1 3NS
1990	Banks, Miss B.R.	Pine Cottage, 1 Pine Avenue BH6 3SN
1992	Barker, Mrs K.M. M.A.	St. Andrews, Westbury, Sherborne, DT9 3RA
1992A	Barberis, Miss O.	15 Huntly Road, BH3 7HF
1978	Barnett, Miss L.M. B.A.	Southwood Lodge Rest Home, Southwood Ave. BH6 3QB
1985	Barraclough, P.K.	157 Cooden Sea Road, Bexhill on Sea TN39 4TE
1971 L	Bartram, T., F.N.I.M.H. F.R.S.H., F.H.A.	6 Browning Avenue, BH5 1NN
1991	Bates, M.W.	Smugglers, 8 Ringwood Rd, Sopley, Christchurch BH23 7BE
1978	Bateson, Miss J.	8 Meadow Crt., Leigh Common, Wimborne BH21 2BG
1982	Baxter, Miss K.C.	13 Glencoe Road, BH7 7BE
1988	Behennah, F.E., C. ENG., FRAEs, FIMechE, FIQA, FBIS.	11 Pine Manor Road, Ashley Heath, Ringwood BH24 2EZ

1991	Benfield Mrs H.	26 Willow Rd, Hampstead, London NW3 (and 510A Christchurch Road, Bournemouth BH1 4BE)
1991	Benke, Miss P.E.	4 Glencoe Road, Queens Park BH7 7BE
1979	Benson, Mrs R.	6 Moat Lane, Barton-on-Sea, BH25 7JG
1980+V	Bentley, M.P., O.B.E., C.Eng.	5 Bournemouth Drive, BH4 9JP
1980	Bentley, Mrs, E.P., A.T.D.	" " "
1986	Berington, J.	Flat 2, 1 St. Augustines Road, BH2 6NX
1991	Biggs, E.E.	18 Gordon Road, BH1 4DW
1991	Biggs, Mrs E.M.	" " "
1951 L	Blandford, Mrs R.I.	B18 Elizabeth Court, Grove Road, BH1 3DU
1964 *	Blower, Miss M.	32 Selkirk Close, Merley, Wimborne BH21 2JP
1990	Booth G.C., M.Sc.	23 Fairview Crescent, Broadstone BH18 9AL
1992	Booth, Mrs A.H.	" " "
1989	Bostock, Mrs A.	6 Rowena Road, BH6 8AE
1988	Boulthwood, Mrs I.O.	30 Verity Crescent, Canford Heath, BH17 7TJ
1983	Boynes, R.C.	43 Keith Road, BH3 7DS
1983	Boynes, Mrs R.	" " " "
1984	Branch, J.	17 Alexandra Road, BH6 5JA
1984	Braund, Miss C.H., B.Sc.	19 William Road, BH7 7BB
1968	Brazier, Miss M.A.	4 Cedar Avenue, BH10 7EF
1991	Brazzell, Mrs M.	B4 San Remo Towers, Sea Road, BH5 1JT
1989 L	Bridal, J.R.	44 Idlesleigh Road, BH3 7NQ
1989	Brinkman, Mrs D.J.	3 Victory Court, 33 Boscombe Spa Road BH5 1AS
1970	Brooks, J.L.	7 Milton Road, Wimborne, BH21 1NY
1970+VL	Brooks, Miss M.M., Ph.C. M.R. Pharm.S., F.R.S.H., F.R.E.S.	" " "
1978	Brotherton, Miss H.J., J.P.	58 Pearce Avenue, Poole, BH14 8EH
	C.B.E.	
1992	Brown G. B.Sc.	Flat 9 Annandale Court, 5 Clifton Rd BH6 3NZ
1990	Brown, Miss M. M.B.E.	37 Portman Road, Boscombe BH7 6EX
1937+V*	Brown, S.C.S., F.D.S.	158 Harewood Avenue, BH7 7BG
(1967)	R.C.S., L.D.S.	
1986 L	Burch, Miss O.E.	10 Chatsworth Road, Poole, BH14 6QL
1988	Burton, Mrs M.	21 Hamilton Court, Johnstone Road, Christchurch, BH23 7NG
1930	Bury, Miss G.J.	10 Rossley Close, Christchurch, BH23 4RR
1977	Butt, Mrs J.M.	599 Chilbridge, Hillbutts, Wimborne BH21 4DS
1989	Carlton, Miss L., M.A.	1A Michelgrove Road, BH5 1JH
1989	Cecil, Mrs M.	9 Highfield, 112 Belle Vue Road BH6 3BH
1988	Chatterton, R.H.	93 South Western Crescent, Poole, BH14 8PP
1992	Cherrett, Mrs E.M.	1 Seacombe Road, Poole BH13 7RJ
1942 *V	Chomé, Mrs W.	Queensmount, 18 Queens Park West Drive BH8 9DA
1988	Chown, P.	18 Felton Road, Poole, BH14 0QS
1988	Chown, Mrs J.	" " "
1974 L	Clapton, Miss D.E.	1 Alington, 25 Marlborough Road, BH4 8DE
1977	Clasby, P.S.	12 Haglane Copse, Lyminster, S04 8DT
1963 L	Clode, J.C.	Flat 7 Kensington Crt, 9 Barton Rd Poole
1963	Clode, Mrs V.M.	" " " BH13 6DT
1990	Coast, Mrs O.	14 Rayscliff, 58 West Cliff Road BH4 8BE
1992	Coleman, K.J.	32 Roman Road, Broadstone BH18 8AG
1992	Coleman, Mrs D.	" " "
1983	Collings R, B.A., P.G.C.E.	73 Harland Road, BH6 4DW
1981	Colyer, L.E.	51 Parkwood Road, BH5 2BS
1981	Colyer, Mrs W.M.	" " "
1992	Cooke, B.	15 Pinewood Road, Ferndown BH22 9RW
1992	Cooke, Mrs V.	" " "

1941 L	Cooper, Mrs E.M.	B18 Elizabeth Court, Grove Road BH1 3DU
1976 *	Copp, Mrs V.E. B.A., F.G.S.	41 Feversham Avenue BH8 9NH
1991	Cowe, R.A.	149A Barrack Road, Christchurch BH23 2AP
1991	Cowe, Miss M.	" " "
1986	Cowles, Mrs M.M.	16 Clowes Avenue, BH6 4ES
1991	Cox, G.E. MSE, MBBI	248 Castle Lane West BH8 9TT
1992	Cox, H.C.	22 Baring Road, BH6 4DS
1986	Craddock, M.S., B.Sc.	7 Lytton Road, BH1 4SH
1973	Crane, Mrs R.C.	26 Montrose, 12 Vicarage Rd, Verwood BH21 6DR
1977	Crompton, Mrs J.E.	148 Evering Avenue, Poole BH12 4JH
1982	Crooks, Miss L.	42 Belle Vue Gardens, Belle Vue Road, BH6 3BG
1975	Curtis, Mrs B.	114 Cutlers Place, Wimborne, BH21 2AZ
1975	Dain, Mrs D.	111 Bader Road, Canford Heath, Poole, BH17 7PW
1987	Davies, S.	88 Castle Road, BH9 1PN
1987	Davies, Mrs M.	" "
1976 L	Davis, Mrs B.	9 Oratory Gardens, Martello Road South, Poole, BH13 7HJ
1976*+V	Davis, Miss M.W.S.	26 William Road, BH7 7BA
1987	Day R.C.	25 Parkway Drive, BH8 9JW
1967	Deacon, Miss M.G.K.	42 Belmont Road, Poole, BH14 0DB
1988	DeConinck, Mrs B.	34 Crescent Court, Chine Crescent BH2 5LA
1975	Dickinson, Mrs H.M.	9a Moorland Road, BH1 3ST
1991	Dingwall, R.G.	New Farm Lodge, Gussage St. Michael, Wimborne
1991	Dingwall, Mrs D.N.	" " " BH21 5JE
1991	Dodd, Mrs A.E.	18 Bennett House, Westbourne Close BH4 9BW
1972	Dolamore, Mrs M.	15 Dene Walk, Ferndown, BH22 8PQ
1991	Donner, Mrs J.	21 Hamilton Close BH1 4ET
1980	Downes, J.P.	10 Leslie Road, BH9 2JH
1970	Draper, G.S.	44 Brackendale Road, BH8 9JA
1970	Draper, Mrs O.G.	" "
1991	Draper, Mrs G.	Flat 50, Fenwick Court, Portchester Road
1988	Draycon, Miss E.P.	51 Talbot Road, BH9 2JB
1991	Drayton, Miss I.W. Dip.Arch.	5 Orchard Mews, Riverdale Ln, Christchurch BH23 1RL
1983	Drew, Mrs C.M.F.	4 Bower Road, BH8 9HQ
1955	Dudley, Mrs I.	17 Widdicombe Avenue, Poole BH14 9QW
1992	Dufall, Mrs R.	32 Mallard Road, BH8 9PL
1985	Duncan, Mrs M.	3/88 Richmond Park Avenue, BH8 9DR
1985	DuPuy, Mrs G.	15 Brassey Road, BH9 1PW
1978	Eames, K.M., F.C.A.	152 Cranleigh Road, BH6 5JP
1974	Easterbrook L	4 The Pines, 38 The Avenue, Poole BH13 6HJ
1974	Easterbrook, Mrs F.P.	" "
1989	Edgley, Mrs B.	8 Purbeck Court, Boscombe Overcliff Drive, BH5 2EN
1984	Edwards G.	65 Alvescot Road, Carterton, Oxford OX8 3JP
1984	Edwards, MrsG.	" "
1989	Edwards, Mrs H.A.	29 Wellington Road, Poole BH14 9LF
1979	Elgood, J.H., M.A.	26 Walkford Way, Highcliffe, BH23 5LP
1979	Elliott, Miss M.	87 The Grove, Christchurch, BH23 2ND
1990	Emerson, Miss J.	8 Haven Road, Corfe Mullen BH21 3SY
1991	Emery-Wallis, F.A.J.	Froddingly, Craneswater Park, Portsmouth PO4 0NR
	D.L., FSA, FRIBA	
1976	Erskine, S.L.W., M.D., D.P.H.	16 Oakwood Road, Christchurch BH23 5NH
1976	Erskine, Mrs K.M.	" "
1990	Etches, Mr S.	3 Colborne Ave., The Vineries, Wimborne BH21 2PZ
1982	Evelyn, Mrs M.	30 Mayford Road, Poole, BH12 1PU
1960	Exton, Miss J.M.	4 Worthington Crescent, Poole, BH14 8BW

1953 L	Farwell, Mrs S.M.A.	Latch Farm, Fairmile, Christchurch BH23 2LB
1987	Fearon, Mrs N.M.	18 Heathwood Road, BH9 2JX
1965	Fildes, Mrs E.M.	45 Wickfield Avenue, Christchurch, BH23 1JA
1981	Fitsgibbon, Miss M.T.	41 Homeleigh House, 52 Wellington Road, BH8 8LF
1982	Foot, Miss G.M.	C6 Twynham Court, Dean Park Road BH1 1JB
1979	Forrest, L.G.	30 Meyrick Court, St. Winifred's Road, BH2 6PH
1986	Fowkes, Mrs G.W.	Flat 5, Retired Nurses Home, Riverside Avenue, BH7 7ES
1990	Francis, Mrs P.M.	32 Oaks Drive, St. Leonards, Ringwood BH24 2QT
1987 L	Galpin, Mrs H.I.	191 Tuckton Road, BH6 3LB
1982	Gandy, F.W.	75 Littledown Avenue, BH7 7MX
1989	Garton, Mrs Y.C.	2 Stourbank Road, Christchurch BH23 1LM
1992	Geddes, Mrs S.M. B.A.	50 Fairhaven Court BH5 1DG
1989	George, R.S., C.Biol.	54 Richmond Park Avenue BH8 9DR
	M.Biol, FLS, FRES	" " " " " "
1989	George, Mrs D.E.L.	" " " " " "
1974	George, W.L.	5 Willow Park, Park Road, Poole BH14 0JP
1974 +V	George, Mrs J.	" " " " " "
1980	Glass, A.	6 Horseshoe Court, Dean Park Road BH1 1HU
1980	Glass, Mrs P.	" " " " " "
1991	Godfrey, Dr. D.J. B.Sc., PhD,	77 Merley Ways, Wimborne, BH21 1QW
1991	Godfrey, Mrs M.	" " " " " "
1984	Gonzalez - Nache, Mrs C.J.	34 Bridport Road, Poole, BH12 4BY
1987	Gorman, P.	24 Hazel Drive, Ferndown BH22 9SW
1981	Gould, A.R.	11 The Boltons, Portarlinton Rd BH4 8DA
1981	Gould, Mrs M.C.	" " " " " "
1988 A	Graham, J.T.	34 Dudsbury Avenue, Ferndown, BH22 8DU
1991	Granville-Lewis, Mrs E.	50 Chessell Avenue BH5 1LJ
1977 L	Gray, Mrs J.F., B.A.	62 Dulsie Road, BH3 7ED
1992	Green, M.T.	Down Farm, Woodcutts, Salisbury SP5 5RY
1992	Green, Mrs K.F.M.	" " " " " "
1989	Gregory, A., B.Sc.,ACSM	31 Whitecliff Road, Poole BH14 8DX
1990	Hackworth, Miss J.E.C.	22 Derby Road, BH1 3QA
1986	Hall, Mrs D.	B9 St. Catherines Court, 35 Christchurch Road, BH1 3NS
1988	Hall, Mrs H.E.	18 Pine Avenue, BH6 3SN
1990	Hancock, Miss C.M.	Flat 1, 66 Carbery Avenue, BH6 3LG
1972	Hanna, H.J.A.	6 Cliffe Road, Barton-on-Sea BH25 7PB
1971	Hanna, Mrs K.A., M.A.	" " " " " "
1972	Harding, R.	3 Portchester Place, BH8 8JS
1976	Hardy, W.	1 Gorseclyiff Court, 5 Boscombe Spa Road
1976	Hardy, Mrs E.	BH5 1AW " " " "
1984	Harrison, K.J.	49 Sheldrake Road, Mudeford, BH23 4BP
1984	Harrison, Mrs W.M.	" " " " " "
1991	Hart, Mrs K.	11A Stour Court, 76 Princess Rd, Branksome BH12 1BS
1986	Hart, Miss M.E.A.S.	13A Dunbar Road, BH3 7AZ
1978	Harwood, R.E.	10 Blakehill Crescent, Poole BH14 8QR
1978	Harwood, Mrs A.M.	" " " " " "
1964	Hatton, R.H.S., M.A.	Pine Cottage, Lower Rowe, Holt BH21 7DZ
1988	Hawkins, A.J., F.C.B.S.I.	15 Beamish Road, Canford Heath BH17 7SQ
1988	Hawkins, Mrs A.J.	" " " " " "
1973	Hayball, Miss G.	85 Homelake House, 36 Station Road, Parkstone BH14 8UD
1991	Haynes, Mrs J.	19 Craigmoor Avenue, BH8 9LW
1969	Hayter, Miss E.	38 Edgehill Road, BH9 2PQ

1985	Haywood, P.J., B.Sc.	74 Alyth Road, BH3 7ND
1985	Haywood, Mrs V.J.	" "
1988	Hearnshaw, Mrs A.A.	58 Beaufort Road, BH6 5AN
1971	Heaton, Mrs M.I.	8 Mayfair, 74 Westcliff Road, BH4 8BG
1989	Henesey, Mrs M.	1 Imber Drive, Highcliffe, Christchurch BH23 5BE
1991	Henshaw, Miss N.K.	33 Northbourne Avenue, BH10 6DG
1992	Hill, C.D.	126 The Grove, Christchurch BH23 2HE
1991	Hill, J.D., LTB.	18 Stuart Road, Highcliffe BH23 5JS
1991	Hill, Mrs G.M.	" " " "
1990	Hill, Dr. V. J.D., Ph.D., B.Met., FIM.	Flat 21 Keythorpe, 25 Manor Rd BH1 3ER
1989	Hill, Mrs M.B.	" " " "
1985	Hilton, J., M.A.	1 Weston Grange, 10 Gervis Rd BH1 3EG
1985	Hilton, Mrs D., B.Sc.	" " " "
1985	Hilton, Miss A.J.	6 Burley Grange, 3 Weston Drive BH1 3EH
1973	Hilton, Miss M.L., B.Sc., Ph.D.	47 Belle Vue Gardens, Belle Vue Road, BH6 3DF
1962 *	Hipperson, Miss M.	19 Richmond Wood Road, BH8 9DG
1992	Hiscock, Mrs J.W.	16 Mayfield Close, Ferndown, BH22 9HS
1992	Hobson, Dr. J.H.	8 Beaufort Road, BH6 5AL
1992	Hobson, Mrs E.M.	" " " "
1992	Hodgson, Mrs M.P.	Flat 4, Marina Towers, The Marina BH5 1BJ
1974	Holmes, Mrs H.N.	4 Chepping Dene, 15 Wimborne Road BH2 6LY
1991	Hood, G.M. MA, BSc.	14 Cavendish Road, BH1 1RE
1984	Hood, Mrs P.	36 Springbourne Court, 130 Windham Road, BH1 4RD
1990	Howlett, Miss J.M.	242 Iford Lane, BH6 5NF
1980	Huggins, S.	33 Hartley Down, 60 Christchurch Road, BH1 3PJ
1983	Hull, Mrs P.F.	12 Hilton Grange, 20 Knyveton Road BH1 3QS
1979	Hyde, R.A.	7 Coy Pond Road, Poole, BH12 1JT
1979	Hyde, Mrs B.F.	" " " "
1983	Jackson, P.E.	6 St. Swithuns Road South, BH1 3RQ
1972	Jarrold, Miss C.W.	Maryfield, 17 Florence Road BH5 1HH
1980	Jenkinson, A.G., B.Sc.	4 Warren Edge Road, BH6 4AU
1977	Jesty, Mrs H.S.	Afterthoughts, Spetisbury, Blandford DT11 9DF
1991	Johnson, Mrs M.M.	50 Hinton Wood Avenue, Highcliffe BH23 5AH
1976	Jordan, L.E.	18 Braidley Road, BH2 6JX
1976	Jordan, Mrs V.M.	" " " "
1990	Kaye, Mrs C.J.	Flat D, 3 Queens Park Gardens BH8 9BN
1970	Kent, H.M., B.Sc.	62 Canberra Road, Christchurch BH23 2HW
1970	Kent, Mrs M.	" " " "
1986	Kernan, Mrs G.L.	652 Castle Lane West, BH8 9UG
1991	Kessen, Mrs E.	51 Southbourne Road BH6 5AG
1985	King, Rev. F.W.	51a Clingan Road, BH6 5PZ
1985	King, Mrs K.A.	" " " "
1987	Kirkpatrick, P.C.	7 Marchwood, Manor Road, BH1 3EY
1991	Koeb, Mrs J.	42 Hillbrow Road, BH6 5NT
1991	Lamb, Mrs L.D.	6 Silchester Close, BH2 6PY
1989	Larsson, Mrs P.M., M.A.	50 Craigmoor Avenue, BH8 9LP
1980	Laughrin, I.G.	54 Eastcliff Way, Christchurch BH23 4EY
1980	Laughrin, Mrs H.M.	" " " "
1979	Lawrence, Mrs K.	27 Gladstone Road West, BH1 4HZ
1984	Lawton, Mrs F.E.	67 Homeways House, 10 Pine Tree Glen, BH4 9ES
1982	Layton, S.F.	7 Sycamore Close, Christchurch BH23 2EL
1992	Leake, D. B.Ed.	47 Portchester Road BH8 8JU
1992	Leake, Mrs B.	" " " "

1992	Leake, Mrs E.	Flat 10, 16A Wimborne Road BH2 6NT
1987	Leather, Mrs L.G.	8 Norwich Mansions, Norwich Ave West BH2 6AL
1966 +V	Lee, W.H.	18 Ravenshall, West Cliff Road, BH4 8AT
1967	Lee, Mrs L.B.	" " " "
1975	Lees, R.G.	4 Seacliff Court, Clifton Road BH6 3PB
1981	Leonard, Mrs A.C.	12 Argyle Road, Christchurch, BH23 3NW
1983	Le Pard, G., B.Sc., F.R.E.S.	S. Matchams View, Hurn Road, Ringwood BH24 2BP
1991	Leroy-Dell, Mrs M.A.	23 Harcourt Road, BH5 2JG
1985	Levick, Miss E.M.	25 Crescent Court, Chine Crescent, BH2 5LA
1983	Levy, D.R.H.	25 Cedar Avenue, Christchurch BH23 2PS
1991	Library	Lansdowne Ref. Library, Meyrick Road BH1 3EB
1970	Lilly, Mrs P.	78 St. Lukes Road, BH3 7LU
1986	Loader, W.E.	28 Parkway Drive, BH8 9JW
1986	Loader, Mrs D.	" " "
1991	Long, Mrs D.C.	69 Covenia Road, BH6 5LW
1934*+V	Lowther, Miss D.M., B.Sc.	Torestin Residential Home, Piers Cross, Haverfordwest, Dyfed, Wales
1984	Luckett, Miss J.	9 Wilverley Gardens, Queens Road, Blandford, DT11 7LE
1976	Lund, Mrs M.S.	8 William Road, BH7 7BA
1991	McCormack, J.J. BSc.,	Flat 4 Grosvenor Crt, Suffolk Rd, BH2 5SX
1986	Macdonald, Mrs J. B.A.	D5 Kings Walk, 19A Knyveton Road BH1 3QZ
1991	McGowran, D.P. MB, ChB, DA,	4 Jumpers Rd, Christchurch BH23 2JR
1983	Mackintosh, Miss S.M.	52 Coombe Avenue, BH10 5AE
1974	McMullin, Mrs E.G.	88 St. Catherines Court, 35 Christchurch Road, BH1 3NS
1973	Maddox, C.B.M.	31 Egerton Road, BH8 9AY
1956 *V	Maddox, Mrs L.M.	" " "
1978	Mann, Mrs M.	9 Endfield Close, Christchurch BH23 2HH
1990	Manning, Mrs D.P. B.Sc.	12 Romney Road BH10 6JR
1984	Marsh, Mrs S.M.	8 Holme Road, Highcliffe, BH23 5LJ
1991	Mason, Mrs P.M.	10 Corfe Lodge Rd, Broadstone BH18 9NQ
1976	Merchant, Miss J.M.	7 Stourton Court, Marlborough Road, BH4 8DE
1989	Miles, K.E.T.	111 Station Road, West Moors Wimborne BH22 0HS
1989	Miles, Mrs E.	" " "
1983	Mitchell, Miss J.E.	24 Elgar Cres., Droitwich Spa, Worcs WR9 7SP
1984	Mitchell, S.F., M.I.E.E.	162 Cranleigh Road, BH6 5JD
1987	Monk, Mrs B.E.	41 Boundary Road, BH10 4HN
1972	Moore, W.H.	11 Hillcroft Close, Castle Park, Dorchester
1981	Morgan, W.D.	47 Sandecotes Road, Poole, BH14 8PA
1973	Morris, T.E.	Sandpit, Frogham Hill, Fordingbridge, SP6 2HW
1973	Morris, Mrs J.F.	" " "
1989	Mosley, Mrs H.	2 Rayscliff, 58 West Cliff Road BH4 8BE
1989	Mosley, Miss K., LRAM.	4 Bolton Court, Belle Vue Road BH6 3DQ
1984	Mountain, Mrs A.	10 Elms Avenue, Lilliput, BH14 8EF
1992	Murray, A.	40 St. Catherine's Road BH6 4AD
1973	Nash, G., M.A., F.R.A.S	12 St. Annes Road, Upton, Poole BH16 5PT
1990	Newitt, Mrs Jessie	22 Venning Avenue, Bear Cross BH11 9QF
1984	Newman, Mrs E.M.	C7 St. Catherines Court, 35 Christchurch Road, BH1 3NS
1967	Nicklen, Mrs L.V.	77 Holdenhurst Avenue, BH7 6RB
1988	Norman, Miss N. B.A.	49 Christchurch Road, BH1 3PA
1984	North, K.J.	12 Littledown Avenue, BH7 7AN
1977	North, Mrs J.L.	" " "
1977 L	Norvall, Miss A.C.	23 Exton Road, BH6 5FQ
1982	Obee, Mrs G.E.	16 Southwick Road, BH6 5PT
1957	Odell, Mrs G.B.	4 Barclay Mansions, St. Valerie Road, BH2 6PF

1970	Offen, E.C.	4 Ranelagh Road, Highcliffe, Christchurch
1970	Offen, Mrs M.J.	BH23 5DY " "
1986	Oldfield, Miss E.	66 Keith Road, BH3 7DX
1987	Osborn, A.	12 Stibbs Way, Bransgore, BH23 8HS
1987	Osborn, Mrs R.	" " " "
1991	Owen-Jones, J.B. B.Sc. Eng.	Flat 8, Gorsecliff Crt, 3 Boscombe Spa Rd
	C.Eng., M.I.Mech.E.	BH5 1AW
1987	Page, Mrs M.R.	8 Craigmoor Close, BH8 9LU
1992	Panchaud, Mrs V.E., SRN	19 Iford Lane, BH6 5RD
1990	Parfitt, Miss B.D.K.	8 Haven Road, Corfe Mullen BH21 3SY
1969+VL*	Parkinson, J.G., F.Z.S.	45 Belle Vue Road, BH6 3DF
1969+VL*	Parkinson, Mrs M.K.	" " " "
1992	Parramore, T.S., C.Eng.	5 Preston Way, Highcliffe BH23 4QT
	M.I.MechE.	" " " "
1991	Parramore, Mrs B.	" " " "
1991	Pendrey, Mrs L.	4 Durley Road, West Cliff BH2 5JL
1989	Philipson, Mrs S.	85 Bath Hill Court, Bath Road BH1 2HT
1986	Pike, Mrs L.	5 Wellesley Court, 36 Wellington Road, BH8 8JS
1983 L	Pinniger, R.S., M.R.C.V.S.	50 Branksome Wood Road, Poole BH12 1HR
1991	Plaw, Miss J.M.	1 Newlands Road, Christchurch BH23 3QJ
1989	Ponsford, Mrs R.E.M.	18 Seaway Avenue, Friars Cliff, Christchurch BH23 4EU
1987	Pope, A.E., C.E., M.I.E.E.	33 Pine Crescent, Christchurch, BH23 4LH
1991	Powell, P.F.	2 Wellesley Court, 36 Wellington Rd, BH8 8JN
1991	Powell, Mrs M.P.	" " " "
1987	Preston, Prof. T.A., M.A., F.M.S., N.A.I.C., M.A.S.A. Eng.	30 Russell Drive, Christchurch BH23 3PA
1991	Pugh, B.H.	118 Knowlton Road, Poole BH17 9ED
1991	Pullman, S.J.	3 Grosvenor Court, Shelley Rd, Poole BH12 2DF
1988	Quaife, Mrs G.L.	10 Felton Road, Poole, BH14 0QS
1989	Quarm, R.	Flat 1 1 Boscombe Overcliff Drive BH5 1JB
1989	Quarm, Mrs B.	" " " "
1979	Randall, Mrs C.	4 Mude Gardens, Mudeford, BH23 4AR
1975	Ratcliffe, G.L., F.C.A.	11 Penrith Road, BH5 1LT
1975	Ratcliffe, Mrs M.N.	" " " "
1985	Raumann, S., B.Sc.	5 Elphinstone Road, Christchurch BH23 5LL
1985	Raumann, Mrs M.S., B.A.	" " " "
1991	Reid, R.B. B.Sc.,	71 Austin Avenue, Poole BH14 8HD
1991	Reid, Mrs M.	" " " "
1991	Ridsdale, Mrs E.M.	25 St. Alban's Avenue BH8 9EE
1984	Roberts, Miss E.	F12 Pine Grange, Bath Road, BH1 2PN
1992	Roberts, M.B., C.Eng., M.I.C.E.	17 Riversdale Road, BH6 4LH
1992	Roberts, Mrs J.E.	" " " "
1963 L	Rossiter, Mrs D.M.	5 Park Homer Rd, Colehill, Wimborne BH21 2SP
1970	Rowe, Miss L.M.	23 The Bluff, Headswell Crescent, BH10 6LQ
1991	Rowling, Mrs C.	8 Grosvenor Court, Suffolk Road BH2 5SX
1967	Russell-Cotes Art Gallery	East Cliff, Bournemouth, BH1 3AA
1990	Ruth, A.B. M.A.,	1 Grovely Avenue BH5 1JA
1991	Sanders, P.C.	48 Willow Park, Park Road, Poole BH14 0JP
1991	Sanders, Mrs C.M.	" " " "
1988	Santall, Mrs P.B.	262A Windham Road, BH1 4QX
1980	Saunders, Miss B.A.	Dormer Cottage, Gaunts Common, Wimborne, BH21 4JR
1975 L*	Saunders, Mrs M.W.	2 Memorial Homes, Castle Lane, BH8 9TP
1951	Sewell, Mrs I.	4 Maundeville Crescent, Christchurch, BH23 2EW
1988	Sharland B.	1 Fishers Heron, East Mills, Fordingbridge, SP6 2JR

1991	Shelton, Miss V.A.	15 Albemarle Road, BH3 7LZ
1981 L	Shepherd, L.H.	1 Coronation Avenue, BH9 1TN
1982	Shewring, Miss J., M.A.	19 William Road, BH7 7BB
1985	Shute, Miss W.	8 Upton Way, Broadstone, BH18 9LY
1984	Simmons, Mrs P.	6 Wychwood Grange, 50 Braidley Road, BH2 6JY
1992	Sinclair, R.C.	19 Russell Mount, Branksome Wood Road BH4 9JN
1989	Singh, Dr. D., MB., DPH,	3 Villa Riva, 9 Marlborough Rd BH4 8DB
1990	Slater, J.D. B.A.	14 Belle Vue Road, BH6 3DP
1990	Slater Mrs A.M.	" " "
1991	Slater, Miss B.M.	23/24 6 Wimborne Road, BH2 6NG
1986	Smith, J.E.G.	1 Fieldway, Highcliffe, BH23 4QU
1986	Smith, Mrs B.	" " "
1991	Smith, J.T.	28 Bryanstone Road, Talbot Woods, BH3 7JF
1989	Smith, L., T.Eng.FBIS	3 Grove Road, Barton on Sea, New Milton
1989	Smith, Mrs J.P.	" " BH25 7DT
1986	Smith, Mrs S.	20 Purbeck Road, BH2 5EF
1975	Souter, Miss E.E.	9 Rowan Close, Highcliffe BH23 4SW
1971	Southworth, Mrs N.K.G., M.A.	26 Durley Chine Court, West Cliff Road BH2 5HJ
1976	Sparkes, G., M.I.E.E.	68 Clingan Road, BH6 5QA
1976	Sparkes, Mrs M.	" " "
1991	Speight, E.D.	31A Southbourne Road, BH6 5AE
1986	Spencer, M.A.	42A Gorleston Road, Poole, BH12 1NW
1991	Spibey, Miss B.M.	48 Ashton Road, BH9 2TP
1986	Spratt, S.E.	204 Uplands Road, West Moors, Wimborne, BH22 0EY
1988	Spratt, Mrs P.M.	" " "
1984	Stanford, Mrs J.M.	117 Wick Lane, BH6 4LD
1992	Stanley, Mrs B.R.	45 Highridge Cres, Ashley New Milton BH25 5BT
1987	Stirling, H.C., B.Eng.	17 Greenacres, 22 The Avenue, Poole, BH13 6AJ
1989	Stirling, Miss J., M.B.E.	17 Greenacres, 22 The Avenue Poole BH13 6AJ
1976 +V	Stocker, Miss M., B.A.	21 Amberley Court, Bath Road BH1 2NL
1990	Stockley, F.E.	26 Lincoln Avenue BH1 4QS
1991	Stoveld, Mrs P.	12 Rowan Close, Highcliffe BH23 4SW
1991	Street, J.B.	48 Walcott Avenue, Christchurch BH23 2NG
1984	Summerell, Miss B.C.	18 Sunnyhill Road, BH6 4HP
1988	Sweet, Miss A.	24 Sunnyhill Road, BH6 5HP
1988	Sweet, Miss B.	" " "
1980 L	Sykes, J.R.	11 Castle Lane West, BH9 3LJ
1979	Taconis, Miss R.M.	78 The Grove, Christchurch, BH23 2HD
1989	Taylor, C.J.	15B Wharfedale Road, BH4 9BT
1990	Taylor, Miss D.E.	42 Queens Park Avenue BH8 9LQ
1992	Taylor, Mrs E.	The Hermitage, Roman Rd, Broadstone BH8 9JJ
1980	Taylor, F.	38 Hillbrow Road, BH6 5NT
1979	Taylor, Mrs M.M.	" " "
1991	Taylor, Mrs G.	127 Southampton Road, Ringwood, Hants BH24 1HT
1991	Taylor, Miss J.M.B., B.A.	3 Greenacres Close, BH10 7DZ
1967 +V*	Teasdill, G., F.M.A., F.R.S.A., F.R.N.S., F.Z.S.	99 Carbery Avenue, BH6 3LP
1967	Teasdill, Mrs N.A.	" " "
1983 L	Teasdill, Mrs V.	287A Belle Vue Road, BH6 3BB
1991	Thom, Miss J.A.	27 Parkwood Road, BH5 2BS
1977	Thomas, Mrs S.	106 Sopwith Crescent, Wimborne BH21 1SP
1988	Thompson, Miss A.R.	Flat 5, 40 Stirling Road, BH3 7JQ
1982	Tiller, B.A.	5A New Road BH10 7DN
1982	Tiller, Mrs M.	" " "
1988	Tonkin, Miss N.E., B.A., MCSP., Dip. TP.	59 St. Catherine's Road, BH6 4AD
1992	Tottle, T.C.	10 Riverlea Road, Christchurch BH23 1JQ

1975	* Towndrow, Mrs I	C4 St. Catherine's Court, 35 Christchurch Rd BH1 3NS
1991 A	Towndrow, Master A.	195 Handside Lane, Welwyn Garden City Herts
1991 A	Towndrow, Miss B.J.	" " " " " AL8 6TE
1992	Trimmer, C.	22 Springfield Cres., L. Parkstone, Poole
1992	Trimmer, Mrs B.	" " " " " BH14 0LL
1981 L	Vassie, G.J., F.R.E.S.	40 Cranleigh Gardens, BH6 5LE
1981 L	Vassie, Mrs B.A.	" " " " "
1989	Vear, Rev F.H.	3 Glenroyd Gardens BH6 3JN
1990	Vipond, Mrs E.	76 Oak Tree Pk, St. Leonards, R/Wood BH24 2RH
1982	Walker, Miss M.J.	18 New Road, Northbourne, BH10 7DT
1985 L	Walker, Miss W.B.	16 North Craig, Windermere, Cumbria LA23 2ET
1974 *	Wall, T.R.	17 St. Mary's Road, Ferndown, BH22 9HB
1987	Wallbridge, Miss E.	16 Riverside Road, BH6 5NN
1984	Waller, H.M., B.Ed.	200 Uplands Road, West Moors, BH22 0EY
1992	Wallis, Mrs G.L., L.S.S.Ch., M.B.Ch.A.	Flat 1, 3 Manor Cottage, 25 Christchurch Road BH1 3NS
1980	Warburg, Mrs A.M.	11 Katterns Close, Christchurch, BH23 2NS
1992	Warren, Mrs K.	30 Nugent Road, BH6 4ET
1977+V*	Watson, F.R.	79 Brackendale Road, BH8 9HZ
1991	Watson, W.D., C.Eng., F.I.C.E.	118 Harewood Avenue BH7 6NT
1991	Weatherhead, Mrs D.	9 The Anchorage, 157 Mudeford, BH23 4AG
1988	Webb, Mrs P.	2 Ash Grove, Ashurst, Southampton, SO4 2EN
1988	Weeks, Miss B.E.	37 Howeth Road, BH10 5DY
1979	Westbrook, Mrs S.	15 Wheelers Lane, Bearwood, BH11 8RR
1989	Westrap, H.A.	14 Aldridge Road, BH10 5NW
1989	Whalley, Mrs L.	12 Headswell Crescent BH10 6LH
1983	Whattoff, Miss E.M.	48 Belle Vue Gardens, Belle Vue Road BH6 3BG
1990	Wheeler, Mrs E.	70 Wedgwood Drive, Parkstone BH14 8EX
1970 *L	Wheeler, H.P.	47 Belle Vue Road, BH6 3DD
1970 L	Wheeler, Mrs L.	" " " " "
1982+VL*	Whieldon, T.P., B.Sc.	10 Branders Lane, BH6 4LL
1982 L	Whieldon, Mrs M.	" " " " "
1992	White, Ms J.M. ARAM, FBSM	Music Dept., BBC, Whiteladies Rd, Bristol BS8 2LR
1990	White, Miss J.S.P., M.A.	Flat C, 9 Stour Crt., 76 Princess Rd, Poole, BH12 1BS
1990	White, Miss P.	10 Dorchester Road, Maiden Newton DT2 0BA
1989	Whitmore, Miss S.M.	48 Victoria Road, Poole BH12 3BB
1978	Whitsed, W.J., F.R.S.A.	41 Feversham Avenue, BH8 9NH
1990	Williams, Mrs D.M.	B15 San Remo Towers, Sea Road BH5 1JS
1985	Williams, B.P.	76 Huntly Road, BH3 7HJ
1979	Williams, Mrs M.	" " " " "
1987	Williams, Mrs M.	39 Homeleigh House, 52 Wellington Rd BH8 8LF
1990	Wilson, Mrs A.V.	37 Cowleys Road, Burton BH23 7NB
1985	Wilson, G.H.	15 Mount Pleasant Drive, BH8 9JL
1972 *	Wilson, F.W., F.C.I.S.	9 Pascoe Close, Poole, BH14 0NT
1988	Windsor, Miss A., B.A., Dip	Ed. 83 Southbourne Overcliff Drive, BH6 3NW
1976 L	Winter, Mrs A.R.	9 The Squirrels, 24A The Avenue BH13 6AF
1979 *	Winter, Miss P.E., M.A.	23 The Anchorage, 157 Mudeford, BH23 4AG
1979 +V	Winter, Miss R.H.D.	23 The Anchorage, 157 Mudeford, BH23 4AG
1948	Wood, Miss E.B., B.Sc.	Flat 1, 3 Southern Road, BH6 3SR
1971 L	Wood, Mrs D.L.	6 Crofton Court, 37 Wellington Road, BH8 8JH
1985	Woodhead, Miss E.T., B.Sc.	7 Compton Lodge, 17 Marlborough Road BH4 8DD
1986	Woodhead, Mrs F.A., B.Sc.	28 Hungerford Road, BH8 6EH
1981	Woods, Mrs J.M.	6 Knole Gardens, BH1 3QY
1983	Workman, Mrs C.N.	99 Carbery Avenue, BH6 3LP
1990	Zara, Miss J. B.Sc., M.Ed.	Flat 5 Restharrow, Lansdowne Gardens BH1 1QR

OBITUARIES

It is with deep regret that we have to announce that during the past year the following members have died (the figure in brackets is the year of joining the Society):

Miss K.M. Bennetts F.Z.S	(1963)
Mr F.D. Dales	(1983)
Mr H. Lawrence	(1978)
Mr D.B. Hunt	(1991)

MISS K. MILNER BENNETTS F.Z.S

Members of the Society were saddened to hear of the death on 10th May 1992 of Miss K. Milner Bennetts. An appreciation, written by the Chairman of Council, Miss Winsome Davis, appeared in the News Letter of June 1992. Mr Graham Teasdill, Curator of the Museum, has written further of her contribution to the Society.

Miss Bennetts, sometimes known as "Georgie", joined the Society in 1963 and was Chairman of Mammalia from 1967. During these 25 years she gave lectures and led Field Meetings exceeding 350 in number. With her Deputy, Mrs Mary Arnold, she arranged all the other Mammalia lectures and Field Meetings.

From 1973-74 and 1982-83 she was the Society's President, a Vice-President from 1974, an Honorary Member from 1976 and one of the Trustees from 1973.

She occupied the key positions of Chairman of Council and the Finance and General Purposes Committee from 1976-1982. She was Chairman of Chairmen of Sections Committee which arranges the Society's Programme from 1971-1989. As a member of the Museum Committee she was responsible for the initiation and care of the Wildlife Diorama on the Balcony Area of 39 Christchurch Road from the early 1970's.

Miss Bennetts wrote two books, one on Sika Deer and the other on her Safaris.

For nearly 20 years Miss Bennetts looked after the New Forest Diorama at the Russell-Cotes Art Gallery and Museum. This included a tape recorded commentary written and recorded by her.

Her funeral took place on 20th May. Many Members of the Society attended and our President, Mr F.R. Watson, read the lesson.

LEGACIES

During the year we were most grateful to receive legacies from the estates of:-

T.A. Crawshaw F.Inst.M.C.

Miss K. Milner Bennetts F.Z.S.

PRESIDENTIAL ADDRESS

OIL IN DORSET
By Mrs V.E. Copp B.A., F.G.S.

Delivered before the Society on 10th October 1992

In Dorset, Kimmeridge Clay has long been known to contain thin seams of oil shale. The most famous of these shales is Blackstone, which was polished up as long ago as the Bronze Age and used for such things as bracelets and household items.

In this area crude oil from these oil shales is sealed underground and so has never seeped to the surface in quantity to form tar pools, as it has in other parts of the country, for example in the tar tunnel of Ironbridge Gorge where it was used for oiling mining machinery.

So although the existence of these shales had been known for so long it was not until the 19th Century when distillation processes were developed that crude oil could be obtained by processing the shale. James Young, Paraffin Young as he was called, built the first refinery in 1847. This led to a number of commercial enterprises in Dorset to extract hydrocarbon products from Kimmeridge shale.

The Bituminous Shale Co. in 1848 made paraffin wax, varnish and naphtha, and, over the years, fertiliser, oil and bitumen were all extracted by various firms from crude oil from the shales, by refining. At one stage shale oil gas was exported for street lighting in Paris.

Shale was still processed as late as 1885 by the Kimmeridge Oil and Carbon Co. on the heath at Sandford, near Wareham, but when this venture folded up no more attempts were made for half a century.

So we make a leap well into the 20th century to the age of the car when petrol became a much sought after commodity. In 1934 the Petroleum Act vested in the Crown the ownership of undiscovered mineral oil and gas. D'Arcy Exploration, later to become B.P., were granted prospecting licences to explore and benefit from production within defined areas.

In 1935, only 57 years ago, the Company began the search in Dorset for orthodox crude oil, that is liquid oil held in large quantities in the pores of reservoir rocks under the ground, quite a different proposition from treating the shales above the ground to obtain relatively small quantities of crude oil from them. It was known that conditions for oil generation and migration existed in the area as small oil seepages occur commonly along the coastal cliffs. You can see and smell it in the oil-impregnated Corallian Benclyff Grit, for example, close to the Bran Point Fault at Osmington Mills.

In 1936 an exploratory well was drilled between Broad Bench and Kimmeridge Bay and a light oil was found just under a thousand feet down.

Unfortunately, with the outbreak of war these operations had to be suspended and during the war this area was part of that taken over by the War Department for an artillery range. So a new site had to be found for further tests.

For ten or twenty years sporadic drilling occurred in various parts of
cont/d

Dorset with little success but in 1959 drilling began again in earnest just outside the artillery range. This time a good quality oil was struck at 1 790 ft. in the Bridport Sandstone. This was the birth of the present Purbeck oil industry, 1959, only 33 years ago.

It was established that there was enough oil to keep one pump on permanent commercial production. This beam pump is the nodding donkey we all know up on the cliffs at the western end of Kimmeridge Bay. The initial flow rate was 700 barrels a day. A barrel is 35 gallons. After 33 years of constant pumping this has now dropped to 100 barrels a day, but it's still a useful little oilfield, especially as it carries on day and night all by itself with very little attention.

Exploration drilling continued along the southern fringes of Poole Harbour but it was not until 1974, 15 years later, that oil in appreciable quantities was tapped at Wytch Farm, 2½ miles north of Corfe Castle. This oil was also in the Bridport Sandstone but at a depth of 2 925ft.

In 1979, only 13 years ago, the first oil was produced at this site. By 1984, 6 000 barrels of high quality crude oil a day were being produced.

Meanwhile, exploration was continuing and in 1978 a deeper and even more substantial reservoir was found in the Sherwood Sandstone at a depth of 5 000 ft. In 1980 the first oil was produced from this reservoir and it proved capable of flow rates never before achieved on United Kingdom land, and indeed, never even dreamed of. Over the whole of the U.K. the highest total production before this time was 2 000 barrels a day. When the first oil began to flow from the Sherwood Sandstone the production was 11 000 barrels a day. At this time the full extent of the reservoir was still being defined but the flow was so astonishingly great that it was flippantly suggested that we had accidentally plugged in to one of the Saudi Arabian oilfields.

Furzey Island was bought in 1983 to improve access to this new find. Today oil is obtained from the Sherwood Reservoir which lies under Poole Harbour from wellsites on Furzey, Goathorn Peninsula and other sites on the mainland north of Corfe Castle.

In 1988, a 56 mile pipeline was laid from Wytch Farm Gathering Station to Hamble where the oil is shipped out to world markets. Hamble has the largest jetty on Southampton Water and it has been upgraded to handle ships of up to 100 000 tonnes.

Recent exploration has been directed towards mapping the profile and characteristics of the Sherwood Reservoir. This involves producing cores and cuttings from drills and investigating the nature of the strata by lowering electrical tools down the borehole. This, together with detailed seismic surveying, builds up a three-dimensional map of the offshore deposits. I expect you remember the rigs in the bay working on this during the winter of 1988 to 1989.

It was discovered that the reservoir lies 1 585 metres below the sea-bed and extends eastwards 6 km from the south of Poole Harbour into the bay. Figures published from this time are metric, something we are slowly getting used to. The bulk of the oil in the reservoir is held in the thickest oil-bearing rock which extends about 3 km offshore. This vast reservoir of oil is estimated to hold 270 million barrels of oil.

With the technology available in 1989 this rich treasure house could not be
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reached from existing wellsites. Just under 2 km was the furthest distance reached by directional drilling. This is drilling at an angle rather than vertically, but the further you drill the more oblique the angle has to be and the more difficult it is to drill. The only way to reach the reservoir with the technology available at the time would have been to build a wellsite at Sandbanks which was impracticable, or on Studland Peninsula which was unacceptable to the National Trust, or indeed, to anyone.

In 1990 it was proposed to reach the reservoir by wellsites on an artificial island in the bay. However the recent advances in long range drilling have made this controversial Hook Island scheme unnecessary.

This year, 1992, a drilling company has been appointed by B.P. for a "drill of the century" from Goathorn Peninsula to Hook Sands facing Sandbanks, eventually drilling three wells at 3.5 km, 4 km and 4.5 to 5 kms from Poole Harbour. The first well is to be drilled in early 1993 and oil could start being pumped ashore by the end of 1993.

Today Wytch Farm is the largest onshore oilfield in north western Europe with 70 wells producing, each day, 73 000 barrels of oil (that's 2½ million gallons), 10 million cubic feet of sales gas, and 500 tonnes of liquified petroleum gas.

Exploration still continues and a wellsite on Furzey Island could soon be pumping from a new reservoir if the Department of Trade and Industry gives approval. This is the Frome Reservoir, half a mile down. It is estimated to contain around 300 million gallons of oil, although the recoverable reserves for such a reservoir are typically between 10% and 20% of the oil in place.

To understand the development of the Dorset oilfield it helps to appreciate the fundamentals of its geology.

There are four conditions necessary for the formation of an oilfield.

Firstly there must be a source rock below rich in kerogen, solid organic material capable of generating hydrocarbons when baked through burial. This is the kitchen. The Kimmeridge shale is a source rock par excellence. It is found over a considerable area of the north west European continental shelf and is the rock which has sourced most of our North Sea fields. It is so rich in organic matter that, when exposed, as it is on the south facing cliffs of Kimmeridge Bay, it has ignited spontaneously forming the famous burning cliffs.

Secondly, near the source rock, there must be a reservoir rock with interconnecting pore spaces to receive the oil when it rises naturally on migration. Both the Bridport Sandstone and the Sherwood Sandstone are ideal, porous, and also substantial, the Bridport Sandstone 160 ft and the Sherwood Sandstone 320 ft in thickness.

Thirdly, a sealing rock or cap must overlie the reservoir to prevent the hydrocarbon molecules from rising to the surface and being lost. Substantial impermeable shales make effective seals for both our Dorset reservoir rocks.

Lastly, the reservoir container must be completely sealed by folding or faulting on all sides, not just above, so that a sealing rock prevents the sideways movement of oil or gas and concentrates the hydrocarbons into a commercial accumulation.

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This last requirement is also nicely met in the Hampshire Basin where Wytch Farm lies. The basin is dominated by east-west trending fold structures. Seismic surveys in 1972 established that an anticline, a formation like an upturned canoe, about 4 miles from east to west and 1 mile from north to south, was lying at a depth of about 3 000 ft between Hartland Moor and Goathorn. This forms the necessary fold trap so that oil cannot escape to the surface.

Down inside this buried whaleback the oil gives way below to water and a horizontal contour drawn round the whaleback at this level marks the lower limit of the reservoir. Wells are sited on the crest of this anticline at Wytch Farm where the upper limit of the Bridport Sandstone reservoir was 2 910 ft and the lower level 3 070 ft below ground level.

Exploration below the sea bed in the bay area has revealed hitherto unknown geological structures. The faulting of the formations involved is very complex. It has been discovered that both the Bridport and the Sherwood reservoirs are sealed partly by faulting.

This explains the paradox that oil from the Kimmeridge source rock has seeped into both the Bridport and the Sherwood Sandstones in spite of the fact that these rocks were laid down millions of years before the Kimmeridge shales produced oil, before they even existed. Faulting due to earth movements since then has dropped down the younger Jurassic Kimmeridge shale so that it lies against both the older Triassic sandstones and so allows the more recently formed oil to migrate sideways and fill the older pore spaces. It was only a few years ago that the complicated details of this structured trap were firmly established.

As a Society concerned with the local environment the Bournemouth Natural Science Society has taken a close interest in all these developments. At the invitation of B.P. we have been able to take parties of members to visit both the Wytch Farm and the Furzey Island sites. We have also been able to arrange informative talks at the House during the progress of the development.

An oilfield to most people suggests a noisy, smelly blot on the landscape, accompanied by great tankers thundering along the country lanes. At the back of everyone's mind, too, lies the fear of a major oil spill. The results of these at sea have been horrific. So, although we had always considered the Kimmeridge nodding donkey to be an interesting, rather amusing, feature of the coast, it was understandable that in 1974, when oil was struck in large commercial quantities, there was considerable opposition to development.

Dorset County Council had to consider applications for planning authority to drill wells from two separate aspects, balancing conservation against the need for economic development.

However, during the last 15 to 20 years of continuous exploration and rising production, it would seem that the environment has suffered very little in the cause of economic development. B.P. have spared no expense or effort to ensure both the safety of the operation and the integrity of the environment.

From the safety point of view, the main effort is directed naturally to the prevention of any oil spill at all. In the unlikely event of this happening the Oil Spill Response Plan has been formulated to ensure a quick co-ordinated response from all the relevant national and local authorities.

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B.P. have, of course, their own trained personnel and equipment on Furzey Island and the other wellsites as well as at the Gathering Station and on the shores of Poole Harbour. Other heavy equipment is kept at Holton Heath. Local response teams are also on 24 hour stand-by each day of the year. In addition, the Oil Spill Response Centre at Southampton is close at hand to give support. This is probably the largest and best equipped spillage fighting unit in the world, one of the first to arrive in Alaska recently to deal with the Exxon spill.

The first line of defence is to confine any spill to the wellsites and the Gathering Station. Oil-proof ditches and high banks surround these sites and are designed to contain any oil spillage on site. This sealing and binding, as it is called, can hold several days' containment for the worst situation that could arise, loss of well control.

Wellsites near the harbour also have secondary containment provisions such as inflatable booms.

The Gathering Station at Wytch Farm covers 32 acres and all the unstabilised crude is piped here from the various wells for treatment and distribution.

The only discharge from the Gathering Station is rainwater from the site surfaces and this is treated to Wessex Water Authority requirements before being discharged.

Unstabilised crude, oil as it comes out of the ground, is a mixture of oil, water and four types of gas.

The water which comes out of the ground with the oil has its bacterial impurities removed before it is pumped back into the reservoir rock through water injection wells. This had to be done as anaerobic organisms would multiply underground and clog the tiny channels, the interconnected pore spaces in the oil-bearing formation, preventing the oil from being released. The water pumped back into the lower part of the reservoir fills the empty pore spaces left by extracted oil and helps force more oil to the surface.

More water is needed than is extracted from the crude oil and extra water is obtained from the harbour at Cleavel Point Pumping Station. Here it is de-oxygenated, cleaned and filtered before being added to the water being pumped back into the formation.

The four gases extracted at the Gathering Station are methane, ethane, propane and butane. Ethane and methane are fed into the British Gas main trunkline at Sopley, near Christchurch, to supply domestic customers in Bournemouth, Poole, Christchurch and the New Forest area. As it is odourless it is first treated with an odour as a safety precaution.

The propane and butane are processed and fed by underground pipeline to the Furzebrook rail terminal and from there travel the 146 mile journey by railcar to Avonmouth, near Bristol. The processed propane and butane can also be stored at the Gathering Station in liquified form in giant pressurised tanks sunk into the ground. Perhaps you remember these enormous tanks, 170 ft long by 12 ft in diameter, being brought down from the Midlands by road in 1988.

The resulting stabilised crude with the water and gases taken out, is washed of salt and other impurities and fed into the pipeline for its 14 hour journey to Hamble.

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Pipeline is an extremely safe way of handling crude oil and removes most of the hazards of transport. Continuously welded pipelines are immensely strong. Corrosion is detected by an "intelligent pig" which monitors the internal and external condition of the pipeline by sensing reductions in wall thickness. Pump valves at the wells shut automatically if the pipeline breaks.

Regular contact is maintained with landowners so that the risk of accidental damage is reduced and the pipeline is constantly monitored by regular patrolling on the ground and by helicopter.

Naturally our members have not only been concerned about the safety but also the impact of all these operations on our rich wildlife habitats as well as on the peace and beauty of the countryside which we are privileged to enjoy here. 65% of Dorset falls within designated areas of natural beauty. There are 82 sites of Special Scientific Interest and four National Nature Reserves in the county.

There were fears that the people and services involved in surveying, constructing and operating oil wells would inevitably affect the environment adversely. Now, nearly 20 years after the first wellsite was sunk at Wytch Farm in 1974, we can perhaps evaluate to a certain extent the measures taken up to this point.

In practice the extraction of oil has had less visual impact on the landscape than that stemming from the extraction of ball clay and the working of sand and gravel.

On our recent visits we were able to see for ourselves the results of the screening programme. Trees have now grown up and this, combined with the placing of equipment into sunken sites and the restriction of the height of installations to below tree level, means that now only from the air can you get any idea of the scale of the operation.

Wellsites are very compact as directional drilling was developed by B.P. at an early stage so that fewer wellheads would be needed. Oil flows under natural pressure initially but later electric submersible pumps are fitted. These are quite silent and only need small wellheads, Christmas trees they call them.

On the ground near the site you can't hear anything, see anything or even smell anything. It's hard to imagine that behind the trees lies, as I have said, the largest onshore oilfield in north west Europe.

100 000 trees and shrubs have been planted under the guidance of professional ecologists. They comprise those native and traditional to the area such as pine, oak, birch, hazel, willow and holly. Hedging and edging shrubs include hawthorn, alder buckthorn and butcher's broom, all chosen especially for their value to wildlife, for example buckthorn for the brimstone butterfly.

The 56 mile pipeline to Hamble was routed when possible to skirt the habitats of the native toads, newts and adders and also the unique species of reptiles like Dorset's smooth snake and sand lizard. When it was not possible to do this the animals were removed in colonies to safe sites from which many are returning.

During the laying of the pipeline heather turves and saltmarsh tussocks were removed, carefully stored and tended, and relaid once work was
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completed. The route of the pipeline is now so well masked by the restoration of the plants and the topsoil that it is necessary to have marker posts for the maintenance men.

The Hampshire Naturalists' Trust commended B.P. for its work here especially on the rerouting of the line to avoid sensitive areas.

23 special studies have been commissioned by B.P. from bodies such as the Institute of Terrestrial Ecology at Furzebrook, English Nature, the Royal Society for the Protection of Birds, Southampton and Swansea Universities and many others. These studies cover such subjects as the shoreline of Poole Harbour, reedbeds, heathlands, salt marshes, reptile communities, wintering bird populations and the freshwater ecology of the Corfe River. For the first time the 14 species of birds of national importance in Poole Harbour are being monitored. Poole Harbour Commissioners say they have learnt more about the harbour recently than in the last 50 years as B.P. have funded so much research.

Other studies have been concerned with monitoring noise, ground-water levels and atmospheric surface water pollution within the development.

Many examples could be quoted of the care and attention to detail given at every stage of transferring the oil from its underground home to the sales outlets. A notable example was the use of lime-free stone in the construction of the access road at Wytch Farm so that the acid-loving plant communities on either side of the road would not be affected. Instead of the freely available local limestone, alternative foundation material was brought in from Bodmin Moor in Cornwall. Badgers and otters are now using the special tunnels built under the access roads.

Again, during the construction of the Cleavel Point Pumping Station work was deliberately interrupted for a time to avoid disturbing over-wintering birds and interfering with fishing interests.

Account, too, has been taken of the archaeological importance of this historic part of Dorset. The archaeological study of Wytch Farm constituted the first comprehensive investigation of lowland heath in southern England and has provided a major contribution to its understanding.

The areas concerned continue to receive professional management but of course it is too early as yet to assess the ultimate ecological and deeper environmental effects. These must be very complex and will take longer to be revealed. It is an undoubted fact, however, that B.P. have contributed towards a fuller understanding of the ecology of the area.

Some credit for all this care must go to local people and to Societies like ours who have made their views plainly known to B.P. and have kept a close watch on proceedings. B.P. were given a special award by the Royal Society of Arts in 1991 for their commitment to the environment requiring management of the highest order. Their example has set a standard for any future oil developments in this country.

The cost of developing the whole of the Wytch Farm oilfield to date has been of the order of £500 million. There have been economic benefits to the area on the way as £60 million of this has been spent with local suppliers.

The field is now paying for itself and profits are high, but of course this benefits us all. Oil has become one of the most valuable sources of revenue

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to the government and without it the country would be even deeper in recession than it is at present.

The life of the oilfield is reckoned to be about 20 to 30 years. Production declines each year and the field will be shut when the net operating profit falls to zero.

Safeguards were built into the initial permission to develop the oilfield so that the site will be fully restored after production has ceased.

When this happens and the Wytch Farm oilfield is just a memory and hopefully, has become a national nature reserve, no doubt everything will appear as if all this had never been.

This account is just a small record of one of the most exciting things ever to have happened in the history of U.K. land exploration.

FROM THE CHAIRMAN OF COUNCIL

At the end of September I completed a year as Chairman of Council and I would like to thank the Deputy-Chairman, Mr J.G. Parkinson, and members of Council for all their help and support.

During the year several members passed away, the most notable being Miss K. Milner Bennetts who had been Chairman of Mammalia since 1967. We shall miss her knowledge in the Society as a whole. Happily her deputy, Mrs Mary Arnold, has taken over the section as Chairman and I am most grateful to her and know it is in good hands.

Another long-standing Chairman, Mrs L. Maddox, resigned because of ill-health. She had been Chairman of Ornithology since 1966 but we all look forward to seeing her on field meetings in the future. Once again a new Chairman came forward to take over - Mr Philip Powell - to whom I wish every success. I am most grateful to him.

The quarterly programme is the life-blood of the Society detailing lectures, field meetings and cultural visits. When a Chairman resigns the Section is not represented in the programme until a new Chairman can be found. So members - when an appeal is made - do not be shy. Come forward - you will be very welcome.

Finally the Honorary Secretary, Mr F.R. Watson, has just completed his Presidential year which I hope he enjoyed. I would like to thank him for all the work he does for the Society.

M. Winsome S. Davis

THE 89TH REPORT OF THE COUNCIL FOR THE YEAR ENDED 30TH SEPTEMBER, 1992

INTRODUCTION: The pattern of activities, established over the years, appears to meet with the approval of members in producing a judicious blend of lectures, field meetings and social interests. A satisfactory year has resulted from the balance between the Society's function as a Learned Society and other pursuits. The programme has incurred occasional and unavoidable gaps, and this will receive specific attention over coming months.

ADMINISTRATION: Mr F.R. Watson has coped well with the the responsibilities of the Presidency and his continuing duties as Secretary. Able support was provided by the Assistant Secretary, Miss R.H.D. Winter, in particular, with co-operation from the Deputy Secretary, Mr M.P. Bentley, when required. The death of Miss Bennetts created a vacancy for a Trustee of the Society, and Council welcomes Miss M.W.S. Davis' agreement to accept nomination. The Charities Act 1992 demands close compliance by the Society and its officers, and we will shortly be seeking legal opinion to ensure that all requirements are met.

FINANCE: The financial wellbeing of the Society is competently guided by the able and close attention given by the Treasurer, Mr T.P. Whieldon, with the assistance of Mrs Iris Towndrow, and their painstaking work is here acknowledged gratefully, together with the help given by Mr W.H. Lee and Miss R.H.D. Winter. The increase in subscriptions, effective 1st October 1991, combined with the growth in membership numbers and the continuing relatively high interest rates on our money deposits have contributed to a surplus of receipts over payments of more than four thousand pounds, transferred to reserves. Separately, following a review of our investments and reserves, £15 000 has been placed in the Charities Official Investment Fund (COIF) Fixed Interest Income Shares which offer a long-term prospect of both value and interest growth. Even after this purchase, our available funds are well over the level of normal running costs for the Society for a year.

The Society has banked with the NatWest Bank since 1903 but its increased charges to unacceptable levels imposed extra costs on the Society, and it was therefore resolved that a current account be opened with the Portman Building Society which offered more favourable arrangements. The practice of printing the Annual Accounts in the "Proceedings" discontinued many years ago, is now to be resumed, and advice is being taken on the future form and presentation to comply with the requirements of the Charities Act, 1992.

MEETINGS: Joint meetings with the RHS, the Orchid Society, the Historical Society, DTNC etc. continue satisfactorily, and lecture subjects generally are helped by a more liberal approach to speakers' expenses. The first French Memorial Lecture is due to take place in October. Following the pattern established here, a legacy from the late Miss Bennetts ensures funding for an annual memorial lecture to be held, open to the public, for the next five years.

MEMBERSHIP: A renewed drive to combat falling numbers was put in hand in April 1992 with some success, and a second printing of the new prospectus became imperative. Membership, at the time of writing, is close to 450. An amendment to the relevant rules to be put before the next AGM, will raise the upper age limit for students to 25. A new method of classifying town

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and country members has been introduced, based on post codes, and has helped to even out many of the anomalies which existed.

PERSONALIA: Mr F.R. Watson has completed his term of office as President combined with his duties as Secretary, and is to be congratulated on undertaking both functions with credit and dedication throughout a rewarding and successful term of office. Meeting the responsibilities of the position has required both hard work and good humour, and we have been fortunate in having Mr Watson to meet these demands.

Miss M.W.S. Davis completed her first year as Chairman of Council, ably fulfilling the demands made by the position, and has in addition taken over as Chairman of Chairmen from Mrs Maddox who resigned the position due to ill-health. Mrs Maddox will be much missed in office after many years of service to the Society, notably as Chairman of Ornithology for 26 years and as Chairman of Chairmen, although we are pleased that she will be continuing to take part in ornithology activities. Mrs Molly Saunders has resigned as Programme Secretary and our particular thanks go to her for the work and time she has devoted to the Society. Miss B.M. Spibey replaces her. It is worthy of comment that Miss Davis is additionally the Chairman of the Geography Section and Miss Spibey Chairman of the Photography Section. Mr P.F. Powell takes over as Chairman of the Ornithology Section. Mrs M. Arnold has taken over the Chairmanship of the Mammalia Section for the time being, in place of Miss Bennetts who died on 10th May. Miss Bennetts will be much missed by the Society and by her many friends; we owe much to her for her work for the Society.

PREMISES: Redecoration undertaken over the year has been completed to a budgeted plan, and our thanks to Mr W.H. Arnold are formally recorded here for the considerable time and personal skill spent in supervising the work and in obtaining the best possible value for money. Our builder, Mr R. Gadsby, has provided conscientious work throughout. Mr Keith Hall, our electrician, has undertaken a thorough safety check of the electrical installation overall to comply with the latest IEE Wiring Regulations and the requirements of the Health and Safety Executive, and remedial work will be shortly undertaken in respect of a few shortcomings to enable a full Certificate of compliance to be issued. All work detailed here, with that on the building exterior last year, contributes to improving the environment for the benefit of members and ensures maintenance of the good condition of our valuable property.

The whole of the first floor and stairway has benefited from the redecorations and the removal of the museum specimens and equipment to make the work possible has enabled the Assistant Curator, Mr H.A. Westrap, to rearrange the display of the archaeological material. The old Curator's Room (no. 11) now houses the Egyptian collection and will be known as the Grenfell Room, and the Archaeology Room (no. 14) is devoted to the rest of the material largely arising from the work of Heywood Sumner after whom it will be named, thus improving the displays and providing memorials to two leading members who did so much to make them possible. Miss Sheila Whitmore has given much work and a great deal of her time in identifying, cataloguing and titling the collection of freshwater shells in the entrance hall. In turn, Mr Graham Teasdill has given his time in the Museum and also in receiving parties of visitors for conducted tours. The Museum Committee has the responsibility of organising the Open Day and our thanks are recorded to all those helping to make the day a success, especially Mr and Mrs George, who arranged an eye-catching display in the Lansdowne Library.

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The Library has benefited from the attention given by Miss Phyllis Winter, and by the work of Mr R.E. Harwood and his helpers on Tuesdays. Gifts of books have been received from the late Miss Bennetts and Miss Connie Jarrold, and a special purchase of the volumes on the restored Sistine Chapel was made in memory of Mr T.A. Crawshaw whose legacy provided the funding. The garden continues to prosper under the dedicated care of Miss Mary Blower and her small but active team. The work of Mrs Pamela Hood, who completes the first year of leadership of the Tea Committee, and of her hard-working helpers is well appreciated.

Revaluation of the property for the New Council Tax is imminent, and we have to await events, while most appreciative of Mr W.H. Lee's continuing advice in these matters. The lease on the office space occupied by the DTNC was renewed in May at an increased rental for a further three years, and we are hopeful that our good relations with the Trust will continue.

THE FUTURE: Considerable study has been expended by Mrs Vera Copp, with help from members, into the possible use of a computer to be used specifically for database purposes in cataloguing the very considerable quantity of specimens and artefacts belonging to the Society. The adoption of a suitable system would allow use also for membership subscription records, accounts etc. in a wordprocessing function.

FOOTNOTE: The thanks of Council and of the Society are due to the many hard-working and dedicated members who have contributed to the welfare and prosperity of the Society. Particular mention should be made of our housekeeper, Mrs Garlinge, and her husband, who continue to serve us well.

M.P. Bentley

University degrees and other qualifications are inserted only at the first mention of names in the following reports.

TEA AND ENTERTAINMENT COMMITTEE

It is a year ago that with some trepidation I took office. I did not feel I was cut out for the job, but as no-one else wished to take it on, I accepted.

Top priority is my indebtedness to the Tea Committee who have faithfully and readily carried out their duties throughout the year and to Mrs Garlinge, our housekeeper.

The afternoon teas, New Year and Garden Parties have been very well attended, and it is pleasing to record that a NET profit of £1 143 was handed to the Treasurer for the Society coffers. Considering that tea tickets have remained at 20p and party tickets at the low price of £1.50, the overall net profit for the Society year is all the more encouraging.

What could be more simple than a cup of tea! but the enjoyment it engenders, if you care to think about it, is manifold. Every member's presence is important to the Tea Committee, so may you continue to respond to our open and cordial invitation to join us for tea.

Pamela Hood
Chairman

ARCHAEOLOGY AND HISTORY

Lectures 1991

October	21	Roman Remnants	W.J. Whitsed F.R.S.A.
November	6	An Introduction to Early Cultures of Mexico	Miss M.W.S. Davis
November	16	The History of Diamonds	L.A. Baker F.G.A., A.R.S.A.
December	7	Temples to Tearooms	Tom Holder

1992

January	18	The Futurist Movement (1908-18)	I.N. Anderson
February	15	Henry VIII, his coinage and his six wives	G. Teasdill F.M.A., F.R.S.A., F.R.N.S., F.Z.S.
March	25	Verwood Pottery Industry	Penny Copland Griffiths
April	4	Prehistory of Cranborne Chase	Martin Green
May	9	Researching the Past	Prof. H. Logan
June	27	Prehistory of Dorchester Area	P. Woodward
July	22	History of Poole	R.M. Impett
August	17	Recent Discovery of Coins in East Dorset	G. Teasdill
September	23	Bruges - Refuge for English Kings - Part I	Madame J. de Fonseca

Field Meetings 1991

October	25	Cuckoo Hill	Gordon Le Pard
1992			
January	10	Pamphill and Cowgrove	J. Andrews
February	21	Sloden Wood	J. Andrews
March	13	Maiden Castle and Poundbury	J. Andrews
April	10	Cranborne Chase	M. Green and J. Andrews
May	22	Hambledon Hill, Iron-Age Hill Fort	Miss S. Mackintosh and J. Andrews
June	5	Kinson Common Barrows	H.A. Westrap
July	16	Chalbury Hill Fort and Ridgeway Barrows	J. Andrews
August	11	Purbeck Range	J. Andrews
September	10	Cranborne Chase	J. Andrews

Margaret Stocker has handed over the Chair of this Section owing to family commitments but has expressed her wish to remain active within the section. The new Chairman will try to maintain the programme quality which has been shown by Margaret Stocker.

The beginning of the season was heralded by the visit to Cuckoo Hill, home of Heywood Sumner. Some of the not-so-fit braved the trail around Ibsley Common barrows to be rewarded with tea in Cuckoo Hill House. Members took off their boots Japanese style and enjoyed the invitation to tea by the present owners. Our thanks to the leader, Gordon Le Pard, who has been researching the Heywood Sumner archives.

Miss M.W. Davis introduced us to the ancient cultures of Mexico in excellent style, her travels are packed with interest which we can all share. At a joint meeting with The Bournemouth Museum and Arts Society, Leonard Baker took us directly into the world of diamonds and their

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intriguing historical background. Another joint meeting in December, with the Historical Association, had an eastern flavour of intricate architecture. The speaker, Tom Holder was a former Vice-President of the Historical Association.

On a field meeting at Pamphill and Cowgrove, always full of mystery, strong Roman influences and once a Mediaeval meeting place, one senses overlapping cultures but there was not a great deal to be seen.

Artists among us appreciated the strong political overtones of the Futurist Movement which was described by our speaker, Mr Anderson. As the forerunner of Cubism it was more, perhaps, acceptable than the application of violence to canvas which preceded it.

Graham Teasdill gave an insight into the life of Henry VIII and his six wives with reference to the coins of the period. The image of a beautiful prospective wife had to be set on canvas so that the King could survey a future wife before declaring his interest. Such a task was left to the skills of a portrait painter such as Hans Holbein who had a responsibility that was not envied.

The visit to Maiden Castle and Poundbury sites took in awe-inspiring aspects of a massive, multi-vallate hillfort. Sir Mortimer Wheeler once quoted Thomas Hardy, "At one's every step forward it rises higher against the south sky, with an obtrusive personality that compels the senses to regard it and consider, ...". Society members finally reached the eastern gate and stopped a while to consider a reconstructed defence of enormous proportions, a mixture of stone interlaced with timbers to make a vantage point, perhaps impossible to scale. The warriors that lay where they were slain had tried to scale these heights. The nature of their death still remains a mystery but indications by archaeologists suggest that some attempt was made to conceal an attempt to bury the evidence as quickly as possible. Poundbury, no less awe-inspiring but just as windy, was a site of equal magnitude when it was considered necessary to convey water along a great viaduct to Dorchester. The number of Roman burials recently found and the amount of water conveyed gives some indication of a large community of Romans.

Martin Green and his wife have become members of the Society since giving a talk on Cranborne Chase. A field meeting was arranged to visit Down Farm Museum where they live. Apart from a most impressive display of excavated material, there is also a geological collection which the Geology section are planning to visit. Martin has recently received an Archaeological Award for his work in the area.

None but the brave reached the summit at Chalbury to absorb past cultures of the Ridgeway Barrows. The hillfort itself was not defensive but a peaceful co-existence of Late Bronze Age and Early Iron Age. Their pursuit of drinking water was somewhat strenuous! Thanks must go to J. Zara and J. Andrews who attempted to emulate the ancient populace.

Madame J. de Fonseca ended the season for us with a display of wonderful slides of Bruges and its architecture, a chosen refuge for English Kings. Madame de Fonseca also showed us an array of national treasures from mediaeval to post-mediaeval art.

H.A. Westrap
Chairman

HEYWOOD SUMNER AND THE BOURNEMOUTH NATURAL SCIENCE SOCIETY

Heywood Sumner (1853-1940) was undoubtedly one of the most important figures in the archaeology of Hampshire and Dorset during the first third of the twentieth century. In recent years several people have written about his work and in 1986 an exhibition, 'Heywood Sumner, Artist and Archaeologist', was held in Winchester.

All these studies have mentioned Sumner's connections with the Bournemouth Natural Science Society but in passing, considering his activities with the Society as incidental to his archaeological and topographical work. This undervaluing of the Society's role is not borne out if one examines Sumner's archaeological career and his involvement with the Society.

Heywood Sumner had come to Bournemouth in 1897 and later moved to his house at Cuckoo Hill, South Gorley, in 1905. In 1911 he began his archaeological surveys of Cranborne Chase which he published in 1913 as The Ancient Earthworks of Cranborne Chase. The Society now seems to have learnt of Sumner's existence and he was asked to lecture to the Archaeological and Historical Section. This he did in November 1914. His title, 'Peace and War on Cranborne Chase in Pre-Historic Times', linked his own work with the concerns of the day.

The next year he lectured more generally on 'The Ancient Earthworks of Cranborne Chase' and was involved with his first excursion. This was to Knowlton Rings, the Proceedings VII gives a formal account of the event.

'Mr Heywood Sumner, F.S.A., who had kindly come over to meet the Society was asked to speak. He --- wished the main purpose of the rings --- to be carried to a suspense account till more had been learned from excavation'.

Sumner's own account is more succinct. Writing to his friend, Frank Stevens (Curator of Salisbury Museum), the following day he says: 'I shirked drill (he was a private in the Fordingbridge Training Corps) in order to meet the Bournemouth Archaeological Society (Sumner sometimes refers to the Archaeological section as the Bournemouth Archaeological Society) at Knowlton Circles near Wimborne St. Giles, where we palavered and inspected twelve miles from here. But punishment was forthcoming. My free wheel went wrong (like my free-will you will say) and I had to walk six miles to Verwood pushing my bike in disgrace. There I got a hireling that would flee and sped home, leaving my poor bike to be brought home on a stretcher tomorrow'. (Letter to Frank Stevens 2-9-15).

In 1916 he does not appear to have done anything with the Society. His archaeological work continued however with his survey of New Forest earthworks and his initial excavations on the New Forest Roman Pottery sites. This work was published in 1917 as The Ancient Earthworks of the New Forest, and he lectured on the subject in December 1917. Also in 1917 he became an honorary member of the Society. He had never actually joined!, in fact he rarely joined any organisation. From 1917 to 1933 Sumner led an excursion or gave a lecture every year.

1918 marked a change in the Society's role. Instead of just reporting on archaeological work, it would initiate it. 'On 12th December 1918, a conference was held to discuss possibilities of archaeological record work. A discussion led to a resolution to undertake a topographical survey of the Bournemouth area, and this was entrusted to, and kindly undertaken by, Mr Heywood Sumner, F.S.A., and Mr W.G. Wallace' (Proceedings XI).

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W.G. Wallace was curator of the Society's museum and had some archaeological experience having excavated at Badbury Rings in 1900. Sumner's letters to Wallace survive in the Society's archives and these give a wonderful picture of how the survey was carried out. The initial letter dealing with the survey (though not the earliest letter from Sumner to Wallace) begins with a delightful period note;
'Dear Wallace

I drop formality and hope you will do the same'

Then continues listing the initial work Sumner had already done, checking the maps for earthworks and suggestive place names;

'I see a Moat is marked round two sides of Leigh farm near Wimborne - and a Church Moor copse near by that excites my curiosity, as I always suspect, and generally find - some sort of earthwork near a 'church' place-name'.
(Letter to Wallace 5-1-19)

Over the next few weeks the letters deal with place name evidence and information from earlier writers, the weather prevented much field work. Other problems also arose;

'This is an apologia for only one day's field work in two months, the fates have been against me.

First after ten years hard wear my bike creaked. Two rims wanted and for these I have been waiting six weeks, then I got out of patience and said that I must have wheels of some sort fitted and as soon as this make-shift was completed I got influenza and have been quite laid up for the last three weeks'. (Letter to Wallace 23-4-19).

As the spring progressed survey work became easier. The hill fort at Dudsbury was surveyed and planned by the end of June, new sites were also being discovered.

'I have found what I believe to be a deer-park earthwork (comparing with the Old Park, Lyndhurst) on Rye Hill, Woodlands'. (Letter to Wallace 13-6-19). The survey was completed by the autumn of 1919 and presented to the Society early in 1920. It was then prepared for publication. Some of the illustrations were dropped because of the cost of reproduction. One, a view from Dudsbury, now hangs just outside the museum. However, when it was suggested that the main map might be dropped, Sumner's ire was raised. He was a great believer in maps and plans and would not allow any of these to be removed;

'I hope that Shaen-Solly (the Chairman of the Archaeological Section) will be able to settle the inclusion of the key map, for it is, as you say, an important (indeed an essential) item in our record. Please let me know if the editor says 'No', because then I must have my say and see what can be done.' (Letter to Wallace 29-1-21) The key map was included and the paper was published in Volume XII of the Proceedings.

The survey is a remarkable piece of work. In a few months seven sites were surveyed, together with the Roman road from Hamworthy to Badbury and numerous barrows. Of these sites three were published for the first time; 'Bee Garden' on Holt Heath, the curious square earthwork at Cowgrove and the deer park on Rye Hill. Sumner was ahead of his time in his interest in mediaeval earthworks for;

'Rye Hill has the distinction of being probably the first mediaeval Dorset park of which a detailed account was published'. Cantor & Wilson 1968.

This survey was also Sumner's last major earthwork survey. It fitted in
cont/d

neatly with his two other surveys. The New Forest bounded the survey area to the east and Cranborne Chase to the north. Both of the previous earthwork surveys had raised problems that could only be solved by excavation. This was also true of the Bournemouth survey. In his account of Dudsbury Camp Sumner had written, 'Indeed, excavation at Dudsbury must be desired by every archaeologist who visits this site. --- There may be information awaiting discovery here beneath the surface. Excavation for knowledge might yield evidence as to the original occupation of this site, while at present we are only able to infer from its castra-metation that Dudsbury is pre-Roman. Without evidence from excavation surmises as to its past are guess work'. (Proceedings XII)

The Society agreed to help fund the excavation ('about £12 was contributed by the society' Proceedings XIII), and in the winter of 1920-21 Sumner began his preparations.

He usually worked with a small team of hired labourers or volunteers (sometimes both). As soon as excavation had been decided upon he let various interested people know;
'Dear Mr Stevenson

I had been waiting to report progress to you until I had got more definite ways and means promises furnished by the Bournemouth Archaeological Section. The first objective is settled namely, Dudsbury Camp, above the Stour.

On March 10 I am lecturing to the Bournemouth Archaeological Section on the New Forest Roman Pottery Kilns and shall be lunching with Shaen-Solly (the Chairman) before-hand. I shall then have an opportunity of talking the matter over fully with him and I think it probable that he will bring it forward after my lecture.

I know that he is very anxious to justify the title of his section in reference to archaeological excavation'. (Letter to A.L. Stevenson 19-1-21)

A.L. Stevenson was the schoolmaster who had led the party of boys who had assisted Sumner excavate two kilns in Sloden Wood the previous year. Other help was promised. Dr Horace Smith volunteered after the lecture mentioned above and with two Ringwood labourers, Bert and Percy Smith ('their names seem to contract to Bert and Pert' Letter to Wallace 5-4-21) work commenced in mid-April and lasted for about two weeks. Wet weather delayed the completed excavation of a section of the ditch so Sumner and Wallace returned in August to finish it.

The excavations at Dudsbury did not produce very much. A doubtful entrance was proved to be modern. Samples of the peat from the lowest level of the ditch were sent to A.H. Lyell, one of the earliest investigators of plant remains from archaeological sites, who identified Sallow, Elder and Blackberry as being present. Two fragments of pottery were found and their identification was a problem;
'The sherd is handmade and leathery in surface feel. Similar I think to iron age sherds that I have handled in Devizes museum' (Letter to Wallace 20-10-21).

Confirmation as to its iron age date was finally received from Christopher Hawkes of the British Museum. It may seem a poor result after all the work that had been done but was in fact a very valuable piece of evidence. At this time the date of most hill forts was unproven and the Dudsbury find has an honourable mention in 'Hill Forts - A Retrospect' (Hawkes 1931)

cont/d

which firmly placed Hill Forts in their archaeological context.

After the first phase of excavation at Dudsbury, Sumner and Wallace, with the same team, turned their attention to St. Catherine's Hill. Here they excavated the site of the demolished Mediaeval Chapel and one of the round barrows. The excavation was published in Volume XIII of the Proceedings under Wallace's name, though it is clear from the paper that Sumner and Wallace shared the direction of the excavation.

Also in 1921 Sumner completed the excavation of six round barrows on Ibsley Common. He had problems with the paper which he wanted the Society to publish;

'I have been considering what you say in your letter of Sept. 14, and referring to the back numbers of our transactions; see that my paper (that I enclose) would make too great demands on the space afforded to the various sections.

The thing that I care for is published, accessible record. It is of no use digging - discovery or not - if both are not recorded, for both inform'. (Letter to Wallace 17-9-21)

A shortened version of this paper was published (Proceedings XIV), and was often quoted, being considered an important paper on the subject. 'Of his smaller excavations one of the most important and difficult was that of the barrows on Ibsley Common'. (Williams-Freeman 1941). In 1925 he decorated the Archaeology room of the museum with a frieze depicting a selection of life-sized reconstructions of Roman Pottery from the New Forest kilns. It must be one of Sumner's last substantial artistic works and harks back to the mural decoration of churches for which he was famous at the end of the nineteenth century.

In the same year he received the Morris Gold medal of the Society, for; 'the valuable services rendered by you in making a critical survey of the archaeology of the Bournemouth, New Forest, and adjoining districts, and the interesting reports you have from time to time published on this subject'. (Proceedings XVI).

Next year he became President of the Society. He used the opportunity of the Presidential Address to raise a controversial issue. In his paper 'New Forest and Old Woods' (Proceedings XVIII) he discussed the management of the New Forest woodland, then as now a much debated topic. His basic argument was simple. Much of the most beautiful woodland on the Forest had developed under a mediaeval management system. Therefore in order to maintain this woodland for future generations it ought to be managed today using the same mediaeval system. Since this required fencing the woodland to encourage natural regeneration it aroused the anger of some organisations. Responding to one such attack by General Powell (Chairman of the New Forest Association) Sumner wrote;

'I certainly do not imagine Ridley, 'dotted about with small chestnut fencing enclosures like an ornamental park at the sea-side' but I should like to see a small enclosure in a heathery windfall gap on the western side of the old wood, where oak and beech seedlings are now struggling for life in spite of the nibbling of cattle and ponies'. (Letter to General Martin Powell 4-1-27)

This controversy led to a visit by the Society to Sloden in 1927 to examine one such experimental enclosure and, incidentally, to look at the sites of some of the Roman Potteries Sumner had excavated a few years previously. The argument as how best to manage the Ancient and Ornamental woods of the New Forest has continued to the present day.

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Sumner was President again in 1927. This time his address was completely uncontroversial, being a series of short biographical studies of early archaeologists in Hampshire, Dorset and Wiltshire. A few years later, in 1931, a collection of several of his papers was published, Local Papers. In all the reviews of the book it was this paper, 'Archaeological Benefactors, Hampshire, Dorset and Wiltshire' which received particular praise.

In 1930 came Sumner's last archaeological (perhaps it should be geological) find, the discovery of a section of mammoth tusk at Ibsley. This was found by the driver of a mechanical excavator and Sumner, the local expert, was called in. He tried hard, very hard, to remove it intact but failed and it disintegrated. Fragments of the tusk were presented to several museums, including the Society's.

His paper on the find includes a note from Sir Arthur Smith-Woodward of the British Museum on how such a tusk should be lifted, Sumner comments; 'These informing notes should be of value to any of our members who may be confronted by prehistoric, decayed bone; and I hope myself to have the chance to profit by them'. (Sumner 1931 p.133). A remarkably optimistic statement for a man of 78!

This was his last lecture to the Society, he led excursions in 1932 and 1933. After this his active involvement with the Society seems to have ended. He died peacefully at Cuckoo Hill in December 1940, and although his death was recorded in the Proceedings there was no obituary.

When considering Heywood Sumner and the Bournemouth Natural Science Society it is interesting to ask what, if anything, each side gained from the association?

Sumner's gain was considerable. He had a great deal of material help from the Society. Not only was there financial help with some excavations but many of his papers were published in the Proceedings, including two very important ones, 'The Ancient Earthworks of the Bournemouth District', and 'The Excavation of Barrows on Ibsley Common'.

The Society gained by becoming nationally known, because of Sumner the Proceedings were often quoted in important archaeological works during the 1920's and 30's.

When the survey of the Bournemouth District was presented to the Society, the committee published a note in the Proceedings XII. 'We may feel it is a real privilege to be able to assist the spade and pen of Mr Heywood Sumner'.

A privilege indeed!

Gordon Le Pard

ACKNOWLEDGEMENTS

I would like to thank all those people and organisations who have allowed me access to their Heywood Sumner material; Salisbury and South Wiltshire Museum, for the letters to Frank Stevens; Dorchester Reference Library, for the letters to A.L. Stevenson; Winchester City Museum, for the letters to Martin Powell; and in particular the librarian and members of the Bournemouth Natural Science Society for access to the letters to W.G. Wallace and much help and encouragement.

ASTRONOMY

1991

November	2 Total Solar Eclipse, Mexico	1991	Adrian Owen
December	21 The Cosmic Microwave Background		Graeme Nash M.A., F.R.A.S.

1992

January	25 An Astronomical Alphabet	Bob Mizon B.A., F.R.A.S.
March	14 Signpost to the Stars	Colin Pither

In the first lecture of the season, Dorset's eclipse chaser Adrian Owen reported on his successful observations of the total solar eclipse of July 11th 1991. This eclipse, which was visible over Hawaii and Central America, was one Saros period (18 years, 11 days) after Adrian's first eclipse he had seen from the Sahara desert in 1973.

A party of some 760 people had left Britain a week earlier for Los Angeles. From there, some 400 had gone on to Hawaii and the rest flew down to the semi-desert regions at the tip of the Baja California peninsula in Mexico. It was here that the long maximum totality of nearly 7 minutes was anticipated. A party of about 20 people, including Adrian, got to the totality centre line and saw the long totality. Adrian's totality "total" is now almost 30 minutes so that he seems well placed to achieve his ambition of half an hour of totality in the near future.

As well as showing slides of the eclipse, Adrian showed many interesting photographs of the holiday which had been organised around the eclipse. These slides included trips in and around Los Angeles, Mexico City and the fascinating Mayan ruins of the Yucatan peninsula.

For the second lecture, the Section Chairman talked about the Cosmic Microwave Background radiation. This is the faint "glow" that pervades the universe. It was discovered (accidentally!) by two Bell telephone engineers, Penzias and Wilson, in 1965. This discovery has proved to be one of the most significant for astronomy this century and has profound implications for cosmology.

The microwave background is identified as thermal or "black body" radiation at a temperature of about 3K and is thought to be the electromagnetic "echo" of the Hot Big Bang which gave birth to the Universe. The subsequent expansion of the universe has red-shifted and cooled the radiation down to 3K at the present epoch.

The first lecture of 1992 was given by Bob Mizon, a local teacher of French and Astronomy and a keen amateur astro-photographer. His topic was "An Astronomical Alphabet" and appropriately he showed 26 slides, many of which he had taken himself, on a wide variety of astronomical topics from A to Z.

Bob used his lecture to stress an issue of serious concern at the present time, namely, light pollution. Indiscriminate and poorly designed lighting in cities and towns is sending vast quantities of light upwards into the sky (where it is not wanted) rather than downwards onto the streets and public places (where it is wanted).

The result is not only that dark skies are almost impossible to find in Britain but that great sums of money are wasted sending light upwards. Only a long campaign of education can persuade people to reduce the sky glow by redesigning and redirecting public and security lighting. cont/d

The final lecture of the season was given by Colin Pither. He used the umbrella title "Signpost to the Stars" to highlight his own observational work on measuring double star systems. For these measurements he used simple equipment he made himself. This equipment consists of a selection of diffraction gratings which fit over the objective end of the telescope. Each grating is composed of a series of spaced parallel bars a centimetre or so across. On observing a double star, the observer at the telescope eyepiece sees displaced diffracted images as well. By a judicious series of aligning the images, the observer obtains orientation angles of the grating. From these he or she can work out the separation and "position angle" (orientation) of the two stars of each system. Accumulation of data over the years enables the orbits of bound systems to be computed. These orbits provide such vital astrophysical information as stellar masses.

The work is largely carried on by dedicated amateurs. Of the many thousands of double star systems visible, only comparatively few have been measured. Much work remains to be done!

Graeme Nash
Chairman

BOTANY

Lectures 1991

November 9	Flowers of Western Australia Part 1	Dr. D Godfrey B.Sc., PhD.
December 18	Look where you tread Part 2	A.A. Wason

1992

January 29	The Conservation of a Dorset Landscape	David Smith Warden of Badbury Rings
February 29	Wild Orchids	Martin Jenkinson
March 11	Avon Forest Park	Miss Linda Nunn

Field Meetings 1992

February 7	Crichel Park	Mrs M. Saunders
March 20	Avon Park	Miss S. Mackintosh
April 23	Hengistbury Head	Miss S. Mackintosh
April 28	Tollard Royal	Mrs M. Saunders
May 19	The Stour River-bank	Miss S. Mackintosh
May 22	Hambleton Hill	Miss S. Mackintosh and J. Andrews
June 12	Garston Wood	Miss M. Blower
June 26	St. Leonard's Area	Mrs M. Evelyn
July 7	Pamphill	Mrs M. Saunders
July 23	Mudeford Wood Reserve and Burton Common	Mrs M. Saunders
July 29	Kinson Common	Mrs M. Evelyn
August 13	Vernditch	Miss S. Mackintosh
September 4	Fungus Foray on Holmsley Old Runway	R. Lees

Our speakers were full of enthusiasm for their particular aspects of Botany. We enjoyed seeing so many beautiful slides of differing habitats and of plants, the close-ups of flowers and of tiny fungi, mosses and lichens being worth special admiration. I thank our speakers heartily for giving us so much pleasure and also Mr G.H. Wilson, our projectionist.

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I am very grateful to those who led field meetings, especially those who deputised for me at short notice, and I am very glad to record that Mrs Molly Saunders very kindly has supplied me with the list of Latin names, as in previous years.

Sheila M. Mackintosh
Chairman

GEOGRAPHY

Lectures 1991

October	19	New Directions in the Countryside	Alan Swindall
November	27	The Colourful Wild West	Miss J. White M.A.

1992

January	15	The historical geography of the Cotswolds	Miss J. Watford M.A.
February	22	The Blandford Story, a story of 18th century master craftsmen	A. Avenell A.R.I.B.A.
March	18	Travels in Western Canada	Mrs M. Arnold
April	11	Berlin 1989-1991	Miss V. Shelton
May	6	Dorset building traditions Part II The use of brick	G. Poole M.A., A.R.P.S. A.M.I.E.E.
June	13	Ecuador and The Galapagos Islands	Miss J. Taylor B.A.
July	11	Scotland	W. Whitsed
August	12	Western Norway and BNSS outings 1992	K. Eames F.C.A.
September	2	The Scenery of the Seychelles	Miss M.W.S. Davis

Field Meetings 1991

October	22	Kimmeridge - Swyre Head	Miss M.W.S. Davis and Mrs M. Lund
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1992

April	3	River Stour, Muscliff Park, Berry Hill	Mrs M. Saunders
July	2	Basingstoke Canal	Miss M.W.S. Davis

The 1991/92 Geography year opened in October with an excellent lecture by Mr Alan Swindall, the former County Planning Officer. He spoke on "New directions in the countryside" from the enclosure acts of the 18th century to the modern practice of "set aside" where land is used for leisure activities instead of producing crops. Conservation is also high on the list of priorities for the use of land.

As a complete contrast, in November, Miss J. White took us to the "Colourful Wild West". The magnificence of the Grand and Bryce Canyons in sunlight showed up the colours of the different rocks.

Miss J. Watford, in January, continued her series of lectures on the historical geography of different parts of Britain. This time it was the Cotswold Edge where the hills are of limestone laid down millions of years ago in the Jurassic Period. The trees and flowers are those which flourish in limestone country.

cont/d

February saw a change in direction. Mr A. Avenell, a local architect, traced the "Blandford Story" through the work of the brothers Bastard who rebuilt the market town after the disastrous fire in 1731. Consequently Blandford has some fine Georgian houses and Georgian decoration in stone and wood.

In March, "Travels in Western Canada" was illustrated with fine photography by Mrs M. Arnold. She visited Banff and Jasper National Parks where she saw black bear, beaver and mule deer as well as other flora and fauna, Mount Robson Provincial Park, Glacier and Yoho National Parks.

The April and June lectures were given by two new members. The former was "Berlin 1989-91" in which Miss V. Shelton showed Berlin before and after the "WALL" came down. The contrast between the two sections of Berlin was very interesting with one flourishing and the other down-at-heel. The latter was a visit to "Ecuador and the Galapagos Islands" by Miss J. Taylor. These islands lie approximately 600 miles off the Ecuadorian coast and were visited by Charles Darwin on his voyage in the Beagle. Many of the birds and plants are unique to the islands.

Mr G. Poole gave part II of his "Dorset building traditions, the use of Brick". It proved to be a fascinating study of cottages, walls - barns and houses tucked away in the Dorset countryside, i.e. knapped flint walls with two or three courses of brick or different patterns with "stretchers and headers".

Two other members, Mr W. Whitsed and Mr K. Eames, gave interesting and well-illustrated talks on "Scotland" and "Western Norway" respectively. Edinburgh and the Braemar Games were shown in the former while Bergen, Sogne Fjord and the Nigards Glacier appeared in the latter. Mr Eames also showed a selection of "B.N.S.S." outings for 1992 causing some merriment as members recognised themselves.

The Chairman brought the year to a close in September with the "Scenery of the Seychelles", a string of tropical granite islands in the Indian Ocean. Several of the islands are bird and conservation reserves and Bird Island, which is coralline, is home to several million sooty terns.

A high standard of photography was shown throughout the year.

Field Meetings

On a sunny mid-October day eighteen members set off to climb the hill overlooking Smedmore House and on to Swyre Head and Houns Tout where we had lunch. Here we watched a small flock of goldfinches feasting on the seeds in thistle heads. The views in all directions were good and the visibility was excellent. After the walk some of us drove down into Kimmeridge village to have a cup of tea.

1992

Nineteen members met for the River Stour - Berry Hill walk on a cold windy day. As the Kingfisher was not in evidence along the river bank we entered the small arboretum called "The Wilderness". It was planted with a variety of trees some ten years ago with the proceeds from the Bournemouth Lottery. Along the river bank we found some marsh marigolds and lesser celandines.

The last outing was in July when we went by coach to the Basingstoke Canal. We joined the narrow boat "John Pinkerton" for a 2½ hour trip through the Hampshire countryside. The Surrey and Hampshire Navigation Trust own the

cont/d

boat and senior citizens man it. A local firm provided a very good tea on board and in the galley two crew members were kept busy brewing up. Everyone agreed it was a delightful way to spend a summer afternoon gliding through the countryside.

I would like to thank everyone, speakers and audiences, who have contributed to an interesting year for the section.

M. Winsome S. Davis
Chairman

GEOLOGY

Lectures 1991

October 26 Noah's Flood
November 23 The Isles of Scilly -
A Drowned Land

Reg Bradshaw, B.Sc., Ph.D.
Vera Copp, B.A., F.G.S.

1992

January 4 Building Stones of West Dorset
February 8 New Materials for Old

March 4 Ball Clay

April 8 Rambles of a Dorset Geologist

May 18 The Seychelles - A Geological
Phenomenon

June 6 The Great Cretaceous Extinctions
July 15 Update on Development of Wytch
Farm Oilfield

August 22 The Dorset Coastal Path

September 26 The Alps - Landscape of Change

Jo Thomas, B.A.
Frank Behennah, C.Eng.,
F.R.Ae.S., F.I.M.E.,
F.I.Q.A., F.B.I.S.
Quentin Palmer, B.Sc.,
A.R.S.E., M.I.M.M. C.Eng.
Tony Cross, B.Sc., F.G.S.,
A.M.A.
Vera Copp

Frank Behennah
Barry Halton, Public
Affairs Manager of B.P.
Keith Abineri, B.Sc.,
M.R.S.C., C.Chem.
Prof. Vincent May, B.A.,
B.Sc., F.R.Met.S.

Field Meetings 1992

March 26 B.P. Installations at Furzey
Island
April 14 West Dorset Building Stones
May 29 Coach to Doulting Quarry and
Wells Cathedral
June 18 The Tarrant Valley
July 28 Osmington Mills
August 28 Coach to Dorchester Building
Stones Exhibition and Dorset
Geological Mystery Trip
September 21 Durlston Bay

Robin Longman

Jo Thomas
David Hill

Frank Behennah
Steve Etches
Vera Copp

Geoff Booth

Study Groups 1991

October 24 Planetary Geology
November 7 The Moon

Frank Behennah
Keith Abineri

Films 1992

January 22 This Earth, The Inheritance.
Under the North Sea
February 19 Alaska, The Great Land.
A Landscape on Loan

Films loaned by B.P.

cont/d

Another year nearer to our goal of a perfectly documented, organised and well-presented geological collection! During the year another 10 000 or so fossil specimens have been identified, classified and catalogued by Justin Delair. His back-up team, "Ginge" Hall and Sheila Aitken, have labelled, boxed and housed them in suitable drawers, while Adrian Murray has painstakingly sorted them into stratigraphical order. Although this is slow work, and we still have approximately another 5-6 000 fossils still to work through, this year has seen considerable consolidation of six or seven years of patient endeavour. Most of our collection is now stored in suitable cabinets in stratigraphical order so that any specific specimen is now more easily available for reference and study. Just as important, the Society now knows much more precisely exactly what geological material it possesses.

During the year we have been able to re-house our valuable collection of Webster fossils from old inadequate box drawers to a handsome mahogany cabinet, thanks to Justin Delair's rescue of the drawers from a salvage heap, and to Bill Whitsed's carpentry skills. This collection contains rare and scientifically important Barton specimens, many of them of microscopic size. Paul Jeffery, from the Department of Palaeontology of the Natural History Museum, expressed great interest in this collection when he visited us some time ago, and now that it is catalogued and properly presented he is planning to spend a couple of days here to study it.

During the year we have been fortunate in acquiring the Justin Delair collection of fossils. The collection has accumulated over a 40-year long time span, mainly as a result of the donor's professional land and geological surveying activities throughout Britain during that period. Many specimens (almost all recorded with accurate O.S. grid references and precise dates of discovery) are from temporary exposures or from localities not hitherto reported elsewhere as fossiliferous, and are thus unique. The geological range of the fossils is also unusually wide, the collection's 4 000 or so specimens including material from the Scottish Carboniferous, the Silurian of Shropshire, the Rhaetic of Gloucestershire and the Kentish Chalk. Especially noteworthy are the reptilian and invertebrate fossils from the Oxford and Kimmeridge Clays of Oxfordshire and Buckinghamshire, the mammalian remains from the Pleistocene gravels of the Middle Thames drainage basin, and the Oligocene invertebrates from the Isle of Wight. Dorset fossils are well represented and include a series of Bartonian fossils collected from coastal exposures ultimately obscured in the 1960's by sea defence and groyne work between Highcliffe and New Milton.

It is a very great privilege for me to work with the Society's fine geological collection and put it in a form which will bring it to the notice of the scientific world, a development which is already beginning to germinate.

Jack Slater has taken over the compilation of the local geology bibliography and has made impressive progress with the accumulation of information during the year. When this bibliography is completed it will contain references to published geological phenomena recorded from Swanage through Bournemouth and Christchurch to Lymington, and in an arc from these extremities reaching as far north as Fordingbridge and Ringwood. Embracing as it will the New Forest and Poole areas, with logs of early well sinkings and recent oil exploration, the final bibliography will be an exceptionally useful addition to our data resources.

An interesting file of information about Dorset oil developments by B.P. has been deposited in the library and many new publications have been added to the geological section of the library during the year. cont/d

Keith Hall continues to monitor the on-going commercial sand and gravel extraction at and around Ibsley, and to inform us of unusual new exposures meriting photographic recording, etc., or of fossils encountered and preserved. His regular on-site observations are irreplaceable and greatly appreciated.

Special thanks must also go to our members Frank Behennah and Keith Abineri who have spent much time and thought on preparing talks and study sessions for us, to Steve Etches and Geoff Booth who have organised field trips, and to Derek Watson who has given practical help in discovering speakers. I am grateful to all those members who have helped to strengthen the geology group by supporting coach outings and by attending lectures, field meetings and study groups. The help and encouragement I receive from members has made my work not only easier, but a positive pleasure. Our speakers and leaders are all enthusiasts in their various fields and I hope their enthusiasm has been infectious and that members have been stimulated by new ideas and experiences during the year.

Vera Copp
Chairman

HORTICULTURE

Lectures 1992

March 7	Plants of Tasmania	Brian Halliwell
April 30	Garden Open Day with N.C.C.P.G.	

Mr Halliwell gave the Royal Horticultural Society lecture. He taught at Hobart Botanical Gardens so knew New Zealand's plants extremely well and his interesting talk was well illustrated with some beautiful slides. Some members will have recognized those shrubs we have at "39" growing in their native land.

In Plant Heritage Week, we opened the garden for the public for one day. Unfortunately it was very wet but refreshments and stalls moved into the hall, gardeners turned up and a successful day was reported. I was away on holiday but thank everyone who helped and ran the show.

We grow many plants from seeds and cuttings, the best (of course) are planted out at "39". The surplus are sold on our garden stall. There is a curious satisfaction in growing on from our own plants, one of the great pleasures of gardening.

We were pleased to have been given *Viburnum Bodnantense* Dawn, *Viburnum Anne Russell*, *Philadelphus Coronarius Aureus* by friends of the late Mrs Jennifer Illingworth. They are all fragrant shrubs and will give pleasure to many members in the years to come.

1991-92 saw big changes in the garden - the felling of four conifers left much work to be done and still to do, the planting of trees to fulfil Bournemouth Council's requirements has gone ahead, thanks to members' generosity. In time there will be a proper acknowledgement.

This year I took two months' holiday but the garden did not suffer. The gardeners and friends watered the "specials", cared for tadpoles and worked very hard.

A very special thank you to all those who helped from me and the Society.

Mary Blower
Chairman

PHYSICS AND CHEMISTRY

1991

October	12	Radio Communications	J. Downes
November	13	More Questions and Answers	
December	4	The Bournemouth Tram Crash in 1908	Graham Teasdill

1992

January	13	Bournemouth's Oldest Museum	Graham Teasdill
February	12	Faraday Lecture - in Southampton	
March	28	Relativity	A.B. Ruth, M.A.
April	22	Even more Questions	
May	16	Scientific Instruments The Periodic Table	A.B. Ruth & F.R. Watson
June	3	Ceramic Superconductors	D.J. Godfrey B.Sc., Ph.D.
July	25	A Scientific Meander in North America	A.B. Ruth
August	26	$H_2O + B.T.U. = C.O.M.F.O.R.T.$	Geoffrey Cox, C.I.B.S.
September	16	Postscript to the Open Day	Mrs J. George and company

Efforts have been made to increase the interest in this Section with perhaps just a little success. There is a book in our library, "Electricity in the Service of Man", a large tome with much fascinating material commending the use and importance of electrical power. The date of the book is 1890! Another book, recently acquired and published 1990, "Archimedes' Revenge" by Paul Hoffman is a most excellent book on Mathematics. These two books formed a part of the Display on Open Day when a Wimshurst Machine (borrowed from the Christchurch Electrical Museum by kind permission of the Curator) and the "Mobius Strip" were demonstrated. Alas, the Wimshurst did not actually 'spark' on the day (it did the day before very well).

In our day and age when we take so much for granted, it is worthwhile, occasionally, to remind ourselves of the great progress that has been made. In lighting, for example, from paraffin lamps, gas lamps, the homely gas mantle, (one of these has been given to the Museum by the Gas Company!) and through to the Mercury Vapour, Neon and Solar electrical lamps now used to light our streets. But, oh dear, complaints are abroad that these lights are unfavourably affecting the Astronomers - too much light in the sky is their cry. So there must be a scientific examination of the best ways to position the lamps.

The Weather, the Atmosphere, Radio Communications, Medicine, Drugs, Ceramics, the mysteries of the Atom and all its particles etc., all come under Physics and Chemistry and have been in the programme of this past year. The lectures given were of the highest quality and the Question and Answer sessions gave rise to much interest and discussion. Members of the Teams giving all the answers included J. Elgood, W. Hardy, A. Ruth, G. Cox, J. Downes, M. Bentley and F. Watson.

Through the foresight of Mr Watson a group of some thirty members were able to attend the IEE Faraday Lecture in Southampton, presented by Philips Electronics and the Imperial College. This celebrates the two hundredth anniversary of the birth of this remarkable man in Newington Butts, South London. The afternoon proved quite successful even though the lecture seemed rather more geared to the large section of the 'younger end'. But perhaps the older members present did realise more fully what grand work Michael Faraday did in the service of man and of God for he was also a deeply religious man.

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Mr Geoffrey Cox was unable to give his lecture on the appointed day because of an accident. His date was filled at somewhat short notice by Mr Ruth and Mr Watson who talked about and demonstrated such topics as Microscopes, Spectroscopes, Holograms, the Periodic Table, Energy and the like. Geoffrey Cox had recovered sufficiently from his serious accident by August and was able to give his lecture (or part of it) on the scientific aspects of Heating Parts 1 & 2 - The Smoking Monster and The Development of Potterton's Boiler. We look forward to the rest of his five sections on this important and 'homely' subject.

Dr Godfrey broke new ground for us with his lecture on Ceramics and Superconductors which was most enlightening. Mr J Downes gave insights into the progress and range of wireless and radio. Mr Ruth, in his Scientific Meander, revealed something of the growth and achievements of Science in America and Canada. His further lecture on Relativity was most helpful, as we tried to absorb what Einstein had had to say on this subject. Mr Teasdill in his two good lectures, as always gave most informative and comprehensive accounts of the great Bournemouth tram crash, and of the first Bournemouth Museum - ours!

The last afternoon of the session for Physics and Chemistry was called 'Postscript to the Open Day'. Mrs George, Deputy Chairman of the Museum Committee, gave a brief history of Open Days and showed the practical importance of such events. She produced copies of Newspaper reports of the first Open Day on September 18th 1975. This was the first time in 56 years that the Society's Collection had been opened to the public and the highlight of the day was a Television programme on B.B.C. 1 'South Today'. Mr George then read out references to Open Days from the Proceedings of past years. Publicity from the Press was good in the 1970's and in 1977 more than 600 people attended. Various suggestions and ideas were ventilated regarding possible further publicity for the Society and for increasing the interest in all the Sections. Possible improvements to the building was a matter also raised.

Mrs J. George, Mr W. George and the Curators were publicly thanked for all their good and painstaking work for the Open Day.

F.W. King
Chairman

PHOTOGRAPHY

Lectures 1992

July 4 East Africa
July 29 Close-up Photography
August 19 Photo Travels
September 12 Illegal Wildlife Trade
of Indonesia

M. Western
Dr. D. Singh
J. Rock
G. Lilley

After some months in abeyance, it is good to have the Photographic section running again. I was very honoured to be asked to take over the chair from Mrs Obee and hope that the lectures will prove interesting, lively and, perhaps, thought-provoking.

I am extremely grateful to three of my friends who started the ball rolling. Mr Western, who was born in Tanzania and who spends a great deal of time there and in Kenya, showed us what is being done as regards management of breeds in national parks and the constant battle against poachers. Dr. Singh's lecture was into the realm of close-up photography, with some

cont/d

quite outstanding shots - all done with the minimum amount of equipment and, in some cases, a well-lit kitchen table. Mr Rock took us aboard his yacht across a rather wild Atlantic and into the sheltered waters of the Caribbean in his year-long following of the sun.

Finally, Mr Lilley brought us the horrid reality of illegal trading in Indonesia. Distressing as some of the shots were, this is a subject that cannot be ignored. However, Mr Lilley has promised to return next year to show us the happier side of wildlife photography.

May I take this opportunity of thanking the members of the society for making me so welcome.

Barbara M. Spibey
Chairman

ZOOLOGY – ENTOMOLOGY

Lectures 1991

October 30 Autumn, Winter and Early Spring
Moths

Miss M.M. Brooks
Ph.C., M.R.Pharm.S.,
F.R.S.H., F.R.E.S.
Miss M.M. Brooks

November 30 What's in a Name?

1992

February 1 To Scotland for butterflies

Miss M.M. Brooks

Field Meetings 1992

June 11 Martin Down

Miss M.M. Brooks

June 30 Holt Heath

Miss M.M. Brooks

July 9 Crockford Bridge

Miss M.M. Brooks

July 21 Vernditch Chase

Miss M.M. Brooks

September 19 Holmsley

Mrs M. Tiller

This season has proved to be an excellent one for migrant Lepidoptera. Vast hordes of Large White (*P. brassicae*) and Small White (*P. rapae*) descended on vegetable patches. One of the more welcome butterfly species to arrive was the Clouded Yellow (*C. croceus*) and we were lucky enough to see a couple on one of our field meetings. Migrant moths noted this year have included Silver Y (*A. gamma*) and Humming-bird Hawk-moth (*M. stellatarum*), one of which took up temporary residence in the garden of No. 39. During the week before the 1991 Open Day, Mr R.S. George ran a Malaise Trap in the Society's garden - and the catch included a real treasure - the Neuropteran *Wesmaelius rarus* - thereby acquiring for No. 39 the honour of being only the fourth British locality for this rare insect.

Our field meetings this year have enjoyed much better weather than last year. Those to Martin Down and Vernditch Chase were conducted in warm sunshine, providing a good selection of species, but at Crockford Bridge very few dragonflies were seen, due to dull and cool conditions. The moth trapping at Holt Heath was a night to remember. Although the trappers were forced to cease operations by a heavy downpour soon after midnight, the next morning's examination of the catch revealed nearly 300 moths - 61 species - of which the most numerous were Buff Arches (*H. pyritoides*) and Elephant Hawk-moth (*D. elpenor*). The season ended with a very interesting and successful gall hunt.

Due to the difficulty in finding outside speakers in this subject, this year the lot fell upon the Chairman. The October talk illustrated the

cont/d

surprising variety of moths to be found on the wing during autumn, winter and early spring. "What's in a name?" looked at the origins of the vernacular and scientific names of the Lepidoptera, and included a light-hearted tour of Classical Mythology. In February there were tales of adventures while photographing the life histories of Scottish butterflies.

My thanks to those members who so faithfully support the talks and expeditions, to Mary Tiller for the gall meeting, and to Mark Spencer for help with field meetings - especially for carrying the generator for moth trapping!

Margaret Brooks
Chairman

ZOOLOGY – MAMMALIA

Lectures 1991

December 14 Badger Watching

Malcolm Howell

1992

January 20 Animals in Captivity
February 17 London Zoo, Past and Present
March 21 London Zoo, The Future
April 25 Marwell Park, A Zoological
Experience

Graham Teasdill
Graham Teasdill
Graham Teasdill
Graham Teasdill

Field Meetings 1991

October 10 Wilverley and Markway Inclosures
October 31 Holidays Hill
November 14 Bolderwood
November 29 Vereley and Berrywood

Mrs L. Nicklen and
Mrs R. Crane
Miss E. Whattoff and
Miss E. Souter
Miss M.W.S. Davis and
Mrs M.S. Lund
J. Andrews

1992

February 27 Rhinefield Area
March 5 Great Linford and Roe Inclosures
March 19 Bolderwood
April 2 South Oakley
April 16 Holidays Hill
May 8 Stoney Cross Area and Sluffers
Inclosure
May 28 Oberwater
July 10 Pound Hill Inclosure
July 24 Anderwood Area
August 14 Mill Lawn Area
August 27 Burley Outer Rails and Beech Bed
Inclosures
September 11 Denny Lodge Inclosure

Miss E. Whattoff and
Miss E. Souter
Mrs M. Arnold
Mrs R.C. Crane and
Mrs L. Nicklen
Mrs M. Arnold
J.G. Parkinson
Miss M.W.S. Davis and
Mrs M.S. Lund
J.G. Parkinson
Miss E. Whattoff and
Miss E. Souter
J.G. Parkinson
Mrs M. Saunders
Mrs M. Arnold
Mrs L. Nicklen

For our first lecture of the season, Malcolm Howell gave us a most interesting talk on badgers. The European Badger, *Meles meles*, belongs to the Mustelidae family, a name which alludes to a scent gland at the base of

cont/d

mark
the tail. Other members of this family include otters, martens, polecats, stoats and weasels. Mr Howell referred to them as "flat footed stinkers". But in their defence I must add that the musky smell of the badger is not unpleasant. Fresh badger dung has this smell and is deposited in pits to mark territory. The common name badger comes from the French word Bêcheur, which means a "digger", and is most apt because the badger is a prodigious digger capable of digging out a labyrinth of underground tunnels, and in so doing, forming large mounds or platforms of earth in front of main sett entrances.

Mr Howell illustrated his talk with superb slides. Some of these showed how close he had been able to approach the badgers at a sett not far from his home in mid-Dorset in his efforts to learn the personal secrets of their life-style such as the boisterous behaviour of cubs racing round and nipping one another's hind quarters, and the throaty noise made by the boar badger in rut.

In the first quarter of 1992 Graham Teasdill gave three in depth lectures on the most famous zoo in the world, London Zoo. On January 20th under the title "Animals in Captivity" Mr Teasdill dealt with the past history of London Zoo (1829-1960). On February 17th the present and recent past of London Zoo (1960-1990) was outlined for us and described as "The Golden Age". Then on March 21st Mr Teasdill talked about London Zoo "The Future & what lies ahead onwards from 1990". During the last two years 1991-1992 London Zoo has been under financial threat caused by failing attendances and the end of Government funding in 1988 due to the depression and changes in Governmental education and financial policies. This state of affairs is naturally of considerable concern to the mammalia section and it was with great satisfaction that we read on September 8th that London Zoo, due to have been closed at the end of that month, had been granted a reprieve and will now be kept open. This change in policy is due to a £1 million gift from the Emir of Kuwait, a Save our Zoo appeal and other private donations and also to an increase in visitors. In the coming year we hope to keep in touch with developments at London Zoo and Whipsnade and to make a study of Bristol Zoo and Cricket St. Thomas. To this end Mr Teasdill will be talking to us on "Recent Zoo Developments" on March 27th next.

On 25th April Mr Teasdill gave a talk on Marwell Park Zoo. The original Marwell Hall near Winchester dates from the 13th century. In Tudor times the estate was the property of the Seymour Family and Henry VIII, who married Jane Seymour secretly at Marwell, was a frequent visitor to the Hall. Anne Boleyn, who had been beheaded by King Henry, is reputed to haunt the Yew Tree Walk. The present Hall, however, was not built until 1815, and the Zoo was opened in 1972 under the directorship of Mr J.M. Knowles F.Z.S.

Marwell Zoo is owned by the Marwell Preservation Trust and is registered as a charity. The aims of the Trust are to preserve endangered species of animals in captivity in order to ensure the continuation of species and to provide animals for release and rehabilitation to the wild where this is feasible. Research into the biology and behaviour of animals as well as education of the public are also part of the work of the Zoo. Animals at Marwell include Hartman's, Grevy's and Chapman's Zebra, Antelope, Siberian and Sumatran Tigers, Snow Leopards, Asiatic and African Lions, Lynx, Jaguars, Panthers, Serval, Wild Boar and Mongolian Wild Horses.

On 11th May 1992 the news of the death of Miss K.M. Bennetts during the previous night came as a great shock to the Society. Miss Bennetts, Georgie as she was affectionately known by her friends, joined the Society in 1963 and became Chairman of the Mammalia section in 1967. Her great love of
cont/d

Natural History in all its branches, and of mammalia in particular, made her an enthusiastic traveller in search of, and to study animals world-wide. But I believe she was at her happiest watching deer and badgers in the New Forest and in giving lectures on her many experiences. Her great fund of humour endeared her to all who knew her, and we admired her courage and her determination to keep going in spite of repeated accidents on her travels and ill health in her later years.

The Mammalia Section is most grateful to Mr Teasdill for his four lectures and to all those who led the many field meetings during the 1991/92 session. These walks were much enjoyed by all those who took part. A special thank you is due to Mrs L.V. Nicklen for the help she has given me to arrange and refurbish the mammalia diorama on the landing prior to our annual Open Day. This she has done every year since it was first set up, and it is Mrs Nicklen who undertakes the tricky job of climbing into the diorama to get to those parts we cannot otherwise reach.

Mary Arnold
Chairman

ZOOLOGY — ORNITHOLOGY

Lectures 1991

October	2	Birds and Aeroplanes	J.H. Elgood M.A.
December	16	Breeding Behaviour of Birds	J.H. Elgood

1992

February	26	The Atlantic Puffin	D.A. Boag
May	27	The Magic of Bird-Song (on tape)	Mrs L.M. Maddox

Field Meetings 1991

October	8	Radipole Lake and Lodmoor	Mrs L.M. Maddox
October	17	Shipstal Point	J.G. Parkinson
November	1	Stanpit Marsh	J.G. Parkinson
November	15	Beaulieu Road	Mrs L.M. Maddox
December	6	Titchfield Haven Nature Reserve	The Warden and Mrs L.M. Maddox
December	17	South Haven Peninsula	J.G. Parkinson

1992

January	17	Keyhaven Marshes	J.G. Parkinson
January	31	Farlington Marshes	J.G. Parkinson
February	11	Calshot	J.G. Parkinson
February	20	Chew Valley Reservoirs, nr Bristol	J.G. Parkinson
March	12	Abbotsbury Swannery & The Fleet	The Swanherd and Mrs L.M. Maddox
March	27	Burley - Red Rise Area	J.G. Parkinson
April	9	Stanpit Marsh	J.G. Parkinson
April	24	Durlston Head	J.G. Parkinson
May	7	Morning walk on Talbot Heath	Mrs M. Evelyn
May	14	Martin Down	Mrs M. Saunders
May	21	Winspit	J.G. Parkinson
June	4	Beaulieu Road	Mrs L.M. Maddox
June	9	Evening Meeting to Sherford Bridge	John Lockwood and Mrs M. Evelyn
June	16	Oberwater	J.G. Parkinson
July	3	Holmsley Lodge	Mrs M. Saunders

cont/d

July	17	Kingston Common
August	6	Stanpit Marsh
August	25	Pamphill
September	3	Upton Country Park
September	22	Keyhaven Marshes

J.G. Parkinson
J.G. Parkinson
Mrs M. Saunders
J.G. Parkinson
R.B. Reid

Once again the Ornithological Section has enjoyed a full and rewarding year of Bird Study although it was noticeable that the number of birds to be seen, particularly migrants, was down on previous years, a trend that unfortunately appears to be true of the whole country.

We did well at Radipole Lake near Weymouth on 8th October 1991, seeing a large variety of duck and waders, including Ruff and Reeve, Dunlin and Greenshank. Bearded Tits were in the reeds and we saw a Kingfisher and Cetti's Warblers.

On Stanpit Marshes at the beginning of November we were pleased to see a Spoonbill on the mud and a good variety of waders.

Dartford Warblers and Crossbills were in evidence at Beaulieu Road on a fine sunny day in mid-November.

We again visited the Nature Reserve at Titchfield Haven in December and were led by one of the Wardens on a cold but bright day. Although we did not see any rarities we enjoyed a splendid day of mixed bird watching.

We began 1992 at Keyhaven Marshes which was very rewarding. There were over 100 Golden Plover on the mud by New Lane and a Curlew Sandpiper on the marsh.

Farlington Marshes is a favourite place to visit in January and a Short-eared Owl quartered the Reserve, and a variety of duck were on the inland pool.

9 Goosanders showed themselves on the Chew Valley Reservoir near Bristol which we visited on a beautiful day in late February.

In March, by special arrangement with the Swanherd John Fair, a small party from this section was taken around the Abbotsbury Swannery and Reserve. Despite inclement weather a profitable and enjoyable day ensued, and we were able to watch a film of the Reserve during the lunch hour.

Unfortunately our Spring Field Meeting at Durlston had to be abandoned due to rain and gale force winds.

A particularly interesting morning meeting was led by Margaret Evelyn on Talbot Heath near her home in May with a splendid and close view of a pair of Dartford Warblers with young in nest.

Nightingales seem to have been scarce this summer and we heard only a snatch of song on Martin Down in May but there was a good supply of migrant warblers including Lesser Whitethroat.

A Hobby and several Woodlark and Crossbill were seen at Beaulieu Road in June.

John Lockwood and Margaret Evelyn led an evening party in June to Sherford Bridge - very successful this year with four Nightjars churring and

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displaying close overhead - also a Tawny Owl with young.

Whimbrel was heard calling at Stanpit in August and there were two Ruff on the Marsh.

We finished the season under review with a most rewarding meeting to the Keyhaven Marshes led by Robert Reid, in late September. A Buzzard was circling overhead and we had fine views of both Godwit, Greenshank and Grey Plover and many other waders.

John Elgood gave us two most interesting lectures at the end of 1991 - Birds and Aeroplanes and The Breeding Behaviour of Birds which were much enjoyed and we welcomed back David Boag who gave us another fascinating talk, this time on the Atlantic Puffin.

I would particularly like to thank George Parkinson who has led so many of the Field Meetings this past year and several others who have helped in so many ways when I have been unwell.

Sadly for me I have had to give up the Chairmanship of this Section due to ill-health - a position I have held for 25 years with great enjoyment and satisfaction. The Section is fortunate that Philip Powell has taken my place with great efficiency and I owe him a deep debt of gratitude. I wish him and the whole Section great success in the future.

L.M. Maddox
Chairman

LOCAL RECORD LIST OF BIRDS OF PARTICULAR INTEREST

Gannet (*Sula bassana*) 21 May, Winspit
Spoonbill (*Platalea leucordia*) 1 Nov 91, Stanpit
Long-tailed duck (*Clangula himalis*) (4) 12 March, Abbotsbury Swannery
Goosander (*Mergus merganser*) 20 Feb., Chew Valley Reservoir (9)
12 March, Abbotsbury
Sparrowhawk (*Accipiter nisus*) 8 Oct. 91, Radipole,
20 Feb., Chew Valley Reservoir
Buzzard (*Buteo buteo*) 14 May, Martin Down, 21 May, Winspit
22 September, Keyhaven
Hobby (*Falco subbuteo*) 4 June, Beaulieu Road
Golden Plover (*Pluvialis apricaria*) (100), 17 January, Keyhaven
Curlew Sandpiper (*Calidris testacea*) 17 January, Keyhaven
Green Sandpiper (*Tringa ochropus*) 17 July, Kingston Common
Common Sandpiper (*Tringa hypoleucos*) 25 August, Pamphill
Whimbrel (*Numenius phaeopus*) 6 August, Stanpit
Arctic Tern (*Sterna paradisaea*) 22 September, Keyhaven Marshes
Short-eared Owl (*Asio flammeus*) 31 January, Farlington Marshes
Tawny Owl (*Strix aluco*) 17 October 91., Shipstal Pt.,
9 June, Sherford Bridge
Nightjar (*Caprimulgus europaeus*) (4) 9 June, Sherford Bridge
Kingfisher (*Alcedo atthis*) 8 Oct 91, Radipole, 6 Dec 91, Titchfield
25 August, Pamphill
Dartford Warbler (*Sylvia undata*) 15 Nov 91, Beaulieu Rd, 17 Dec 91 South
Haven Pen., 7 May (with nest & young)
Talbot Heath
Bearded Tit (*Panurus biarmicus*) 8 Oct 91., Radipole, 22 Sept., Keyhaven
Crossbill (*Loxia curvirostra*) (2) 15 November 91., Beaulieu Road

MEMBERS DAY

1991

October	9	Quiz	Members
November	20	Slides of Germany and Austria including Hallstatt	J. Andrews
December	11	Talks by members on books which have interested them	Members

1992

January	8	New Members' Afternoon. New members will be welcomed by the President, F.R. Watson, and then shown round the various rooms of the Society	The President
February	10	Poetry Readings	Members
March	16	Fun with words	Members
April	13	Members' Slides	Members
May	13	Quiz	Members
June	17	Round the Garden at No. 39 with Miss M. Blower	Miss M. Blower
July	8	Newspaper Cuttings	Members
August	5	Talks by members on books which have interested them	Members
September	30	Impressionist Art	Members

Twenty new members attended the New Members' Afternoon in January and both old and new members enjoyed tours of the garden in June.

Places some members had visited were shown in Mr Andrews' slides and also on Members' Slides afternoon. Included in the latter were some of flowers.

Members showed a wide range of reading at the Books and Poetry meetings and also in their choice of newspaper cuttings, though scientific ones preponderated. The quizzes were on geographical subjects.

Members having had time to prepare, many strange words emerged at the Fun with Words meeting.

In September sixteen members had a happy discussion of their preferences for the various Impressionist artists.

My thanks are due to all the members who have helped to make Members' Afternoons successful.

H.M. Dickinson
Chairman

LIBRARY

As Librarian I am delighted that our yearly allowance for the purchase of books has been increased from £100 to £250 as from October and must thank our Chairman, Miss P.E. Winter for her efforts in achieving this.

During the past year fourteen new purchases were made, chosen by Chairmen of Sections or by the Library Committee and over thirty donated books were accepted into the Lending Library Section.

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Two large and valued collections were donated by Miss C.W. Jarrold and the late Miss K.M. Bennetts and these are still in the process of being classified and indexed.

Donated periodicals are still gratefully received for the benefit of members and are on display in the Library for perusal prior to lectures.

My thanks to all who assist in the Library, both in committee and practically in the Library itself and not least of all, to those who helped out on Open Day.

R.E. Harwood
Librarian

MUSEUM

Our Society's Museum has made great strides during this year. Mrs Jessie George, Deputy Chairman, ably assisted by her husband, has continued her keen interest in the organisation and arrangement of the Annual Open Day and also in our representation at Meetings of the County and Regional Bodies. Together with our Assistant Curator, Tony Westrap, they have arranged a number of exhibitions in various parts of Bournemouth to publicise the Society and its activities.

Josephine Zara is the Minute Secretary to the Museum Committee as well as serving as one of the Society's two Press Officers. All the Chairmen of Sections serve as members of the Museum Committee and much benefit is derived from their specialised expertise.

In addition to the Members of the Museum Committee, the keen interest and helpful activities of a 'small army' of voluntary enthusiasts drawn from quite a wide age range, greatly benefit the work and interest of the Museum. Much of their work involves research, documentation, identification, labelling and display. We are particularly grateful to Sheila Whitmore, for almost single-handedly classifying, labelling and re-displaying the magnificent collection of sea-shells. Apart from Conchology, the sections in which the most work has been done are in the areas which occupy separate rooms in the Museum i.e. Archaeology, Botany, Geology and Mammalia. The re-labelling of the Ornithological Collection has been almost completed.

We are all most grateful to our Curator and Deputy Curator for their understanding, vision, grasp of detail and sheer hard work on behalf of the Museum; and to all others who have contributed to the success and order of the activities during this year.

We also acknowledge, gratefully, various gifts to the Collection, including Ceramic Magnets, Headphones with the B.B.C. Stamp of 1923, Crystal Set and other interesting and valuable items.

We hope that all members of the B.N.S.S. will continue to appreciate and use what the Museum offers by looking around the exhibits from time to time and in consultation with the Curators and Members of the Museum Committee.

F.W.King
Chairman

PUBLICATIONS AND PERIODICALS RECEIVED

The following publications were received in the Library during the year. Some of them were gifts from members who subscribe personally to the particular Society. The Library Committee are glad to record their appreciation of such gifts.

Alpine Garden Society Bulletin
Birmingham Natural History and Philosophical Society - Proceedings
Botanical Society of the British Isles - Watsonia. Proceedings
Bristol Naturalists' Society - Proceedings
California Academy of Sciences - Proceedings
Cambridge Antiquarian Society - Proceedings
Council for British Archaeology - Newsletter
Dorset Trust for Nature Conservation - Newsletter
Dorset Natural History and Archaeological Society - Proceedings
Geology Today
Hampshire Field Club and Archaeological Society - Proceedings
Hertford Natural History Society - Transactions
National Geographic Magazine
National Trust - Newsletter
Nature
Oryx
Royal Horticulture Society - "Gardens".
Senckenbergische Naturforschende Gesellschaft - "Natur und Museum"
Societe Jersaise - Annual Bulletin
Torquay Natural History Society - Transactions and Proceedings
Upsala University, Sweden - Acta Phytogeographica Suecica
Zoological Society of London.

LIST OF PRESIDENTS (1903 - 1992)

1903-04	J.E.Beale (Mayor of Bournemouth)
1904-06	G.E.J.Crallan, M.A., M.B., M.R.C.S.
1906-07	H.J.Waddington, F.L.S.
1907-09	A.Ransome, M.A., M.D., F.R.C.P., F.R.S.
1909-10	A.Smith Woodward, D.Sc., F.R.S., F.L.S., P.G.S.
1910-11	Dukinfield H.Scott, M.A., Ll.D., F.R.S., F.L.S., F.G.S.
1911-13	Sir E.Ray Lankester, K.C.B., M.A., Ll.D., F.R.S., F.L.S.
1913-16	Sir Daniel Morris, K.C.M.G., J.P., M.A., D.Sc., D.C.L., F.L.S.
1916-17	The Rt.Hon. the Earl of Malmesbury, D.L., J.P.
1917-18	Sir Jethro J.H.Teale, M.A., D.Sc., Ll.D., F.R.S.
1918-20	Field Marshall Lord Grenfell of Kilvey, G.C.B., G.C.M.G., Ll.D., F.S.A.
1920-21	Lt.Col. Sir David Prain, C.M.G., C.I.E., F.R.S.
1921-23	F.G.Penrose, M.D., F.R.C.P., F.Z.S., M.B.O.U.
1923-24	Sir F.W.Keeble, K.B.E., D.Sc., F.R.S.
1924-26	Hubert Painter, B.Sc., F.C.S.
1926-28	Heywood Sumner, F.S.A.
1928-29	Claude Lyon
1929-30	Professor F.O.Bower, D.Sc., F.R.S.
1930-31	Henry Bury, M.A., F.L.S., F.G.S.
1931-32	Dukinfield H.Scott, M.A., Ll.D., F.R.S., F.L.S., F.G.S.
1932-33	J.P.Williams-Freeman, M.D.
1933-34	Rev.F.C.R.Jourdain, M.A., F.Z.S., M.B.O.U.
1934-35	Sir F.W.Dyson, K.B.E., M.A., D.Sc., Ll.D., F.R.S., F.R.A.S.
1935-36	Henry Bury, M.A., F.L.S., F.G.S.
1936-37	Sir Harold Carpenter, M.A., D.Sc., F.R.S.
1937-38	Professor John Cameron, M.D., D.Sc., F.R.S.E.
1938-39	Professor G.D.Hale Carpenter, M.B.E., D.M., F.L.S., F.Z.S., F.R.E.S.
1939-40	W.G.Aitchison Robertson, M.D., D.Sc., F.R.C.P., F.R.S.E.
1940-41	Rev.Professor M.C.Potter, M.A., D.Sc., F.L.S.
1941-42	Inst.-Capt.M.A.Ainslie, R.N., M.A., F.R.A.S.
1942-43	William C.Simmons, B.Sc., A.R.C.S., F.G.S.
1943-44	Professor S.Mangham, M.A.
1944-45	A.S.Hemmy, B.A., M.Sc.
1945-46	J.F.N.Green, B.A., F.G.S.
1946-47	Lt.-Col.C.D.Drew, D.S.O., F.S.A.
1947-48	W.J.Woodhouse, A.C.P.
1948-49	Edward Hindle, M.A., D.Sc., F.R.S., F.Z.S.
1949-50	Mrs.W.Boyd Watt, F.Z.S., M.B.O.U.
1950-51	Professor Sir R.A.Peters, M.C., M.A., M.D., F.R.S.
1951-52	Ernest Chambers, F.L.S.
1952-53	F.Williamson, F.R.Hist.S.

1953-54	H.E.Clarke, M.A., B.Sc., F.R.I.C.
1954-55	W.J.Read, M.Sc., F.R.I.C.
1955-56	W.S.Brown, B.Sc.
1956-57	A.W.Legat, M.Inst.C.E., M.I.S.E.
1957-58	D.A.Wray, Ph.D., M.Sc., F.G.S.
1958-59	Miss M.A.M.Penrose, B.Sc.
1959-60	Miss D.M.Lowther, B.Sc.
1960-61	James Fisher, M.A., F.L.S., F.Z.S.
1961-62	W.P.Winter. B.Sc.
1962-63	F.H.Perring, Ph.D., M.A.
1963-64	Miss F.M.Exton, B.A.
1964-65	Dame Kathleen Lonsdale, D.B.E., D.Sc., F.R.S.
1965-66	A.J.Butcher, F.R.I.B.A.
1966-67	Mrs.A.K.Hunt, B.Sc.
1967-68	Professor F.Hodson, Ph.D., B.Sc., F.G.S.
1968-69	T.Marshall Bell, B.A., M.B., B.Ch.
1969-70	Ernest Chambers, F.L.S.
1970-71	Graham Teasdill, F.M.A., F.R.S.A., F.R.N.S., F.Z.S.
1971-72	Miss Ursula M.Ogle
1972-73	Sqd.-Ldr.J.L.C.Banks
1973-74	Miss K.Milner Bennetts, F.Z.S.
1974-75	Don Small, M.Sc.
1975-76	S.C.S.Brown, F.D.S., R.C.S., L.D.S.
1976-77	F.Oldham, J.P., M.A., B.Sc., F.Inst.P.
1977-78	W.H.Lee
1978-79	Mrs.G.M. Thomas, M.A., B.Litt.
1979-80	T.A.Crawshaw, F.Inst.M.C.
1980-81	Miss M.M.Brooks, Ph.C., M.R. PharmS., F.R.S.H., F.R.E.S.
1981-82	Mrs.M.K.Parkinson
1982-83	Miss K.Milner Bennetts, F.Z.S.
1983-84	Miss M.W.S.Davis
1984-85	R.F.Harrison, F.M.A.
1985-86	Miss R.H.D.Winter
1986-87	J.G.Parkinson, F.Z.S.
1987-88	Miss M. Stocker, B.A.
1988-89	Mrs Jessie George
1989-90	M.P. Bentley O.B.E., C.Eng
1990-91	T.P. Whieldon B.Sc.
1991-92	F.R. Watson
1992-93	Mrs V.E. Copp, B.A., F.G.S.

BOURNEMOUTH NATURAL SCIENCE SOCIETY (A REGISTERED CHARITY)

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 30 SEPTEMBER 1992

RECEIPTS

1991		£	£	£
	<u>SUBSCRIPTIONS AND DONATIONS</u>			
4946	Subscriptions			6016
150	Donations: Specified	155		
288	General	208	363	
382	Tax refund on covenants		485	6864

INCOME FROM LETTINGS

2250	Rent	2625		
271	Rates, water, gas	363	2988	
360	Hire of hall/garden		480	3468

ACTIVITIES

149	Field Meetings		30	
420	Teas		549	
44	Social: Tea party	34		
238	New Year party	230		
22	President's luncheon	20		
275	Garden party	330	614	1193

SUNDRIES

165	Sales of plants		163	
65	Telephone Kiosk		59	
107	Other		196	418

INTEREST ON INVESTMENTS

7452	General funds		6619	
164	Building maintenance fund		448	
164	Garden fund		139	
-	Lecture accounts		194	7400
				<u>19343</u>

EXTRAORDINARY RECEIPTS

19865	Legacies			4165
				<u>23508</u>

PAYMENTS

1991		£	£
	<u>ACCOMMODATION AND SERVICES</u>		
2290	Caretaker	2368	
8562	Repairs & maintenance	5185	
902	Garden	357	7910

531	General Rate	683	
943	Insurance	1090	1773

356	Water services	294	
1015	Gas	1129	
533	Electricity	709	2132

193	Postages	215	
377	Telephones	403	
811	Printing & Stationery	619	1237

ACTIVITIES

317	Meeting expenses	276	
330	Library (books etc)	442	
870	"Proceedings"	902	
-	Museum	154	
102	Subscriptions to other institutions	104	1878

SUNDRIES

82	Nat West Bank charges	167	
104	Other	59	226

Deficit			
406	Surplus (receipts less payments)		<u>418</u>

DEDUCT -418

NIL EXTRAORDINARY PAYMENTS

	Refurbish lecture hall seating	3531	
	Purchase of book from legacy	450	398
19459	Surplus (Transferred to reserves)		<u>437</u>
			<u>2350</u>

AUDITOR'S REPORT

We have examined the above Receipts and Payments Account with the books of the Society and Vouchers for payment and certify the same to be correct.

T.P. WHIELDON - HONORARY TREASURER

A.G. JENKINSON)

G. SPARKES) HONORARY AUDITORS

BOURNEMOUTH NATURAL SCIENCE SOCIETY (A REGISTERED CHARITY)

INVESTMENTS AND RESERVES

Value 30.9.91		COST	Value 30.9.92
£	<u>NARROW RANGE</u>	£	£
621	£1500 Consolidated Stock 4%	979	628
491	£ 500 Treasury Bond 9% 1994	512	507
1616	£1620 Treasury Loan Stock 9½% 1998	1598	1691
<u>13112</u>	* N.S. Deposit Bond 8005768/1	<u>14601</u>	<u>14601</u>
15840		17690	17427
	<u>WIDE RANGE</u>		
737	£ 750 Treasury Bond 9% 1994	788	760
4758	£4800 Treasury Bond 9% 1992-96	4991	4841
<u>15265</u>	2706 units M&G Charifund Income	<u>9984</u>	<u>13308</u>
20760		15763	18909
	<u>SPECIAL RANGE</u>		
-	12,789.9 COIF Fixed Interest Income shares	15000	15009
	<u>AVAILABLE FUNDS</u>		
2260	* N.S.B. Investment Account	2512	2512
29582	* COIF Deposit: General account	14024	14024
2000	* No 2 (Lecture) Account	2194	2194
-	* No 3 (Lecture) Account	1070	1070
	Portman Building Society:		
4012	* Building/Maintenance Account	2448	2448
1324	* Garden Fund Account	1565	1565
-	* Current Account	1304	1304
732	* Nat West: Business Reserve Account	766	766
- 1433	* Current Account	469	469
<u>65</u>	* Cash-in-hand	<u>72</u>	<u>72</u>
38542		26424	26424
75142	GRAND TOTAL	74877	77769

NETT CHANGES IN MONEY FUND (items marked * above)

Total at 30.9.91	51654
Plus surplus from 1991-92	<u>4371</u>
	56025
Less purchase of COIF Shares	<u>15000</u>
Total at 30.9.92	<u>41025</u>

BUILDING & MAINTENANCE FUND

	£
Balance at 30.9.91	4012
Receipts	<u>468</u>
	4480
Payments	<u>2032</u>
Balance at 30.9.92	<u>2448</u>

GARDEN FUND

	£
Balance at 30.9.91	1323
Receipts	<u>367</u>
	1690
Payments	<u>125</u>
Balance at 30.9.92	<u>1565</u>







